

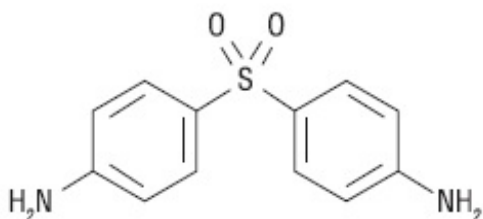
**DAPSONE- dapsone tablet**  
**Rising Pharma Holdings, Inc.**

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**Dapsone Tablets USP, 25 mg & 100 mg**

**DESCRIPTION**

Dapsone-USP, 4,4'-sulfonyl dianiline, is a primary treatment for Dermatitis herpetiformis. It is an antibacterial drug for susceptible cases of leprosy. It is a white to creamy white crystalline powder, very slightly soluble in water, sparingly soluble in alcohol, soluble in acetone and dilute mineral acids.

Dapsone is issued on prescription in tablets of 25 mg and 100 mg for oral use.



Inactive Ingredients: Magnesium stearate, microcrystalline cellulose, pregelatinized starch, sodium lauryl sulfate, sodium starch glycolate (Type A), and stearic acid.

**CLINICAL PHARMACOLOGY**

**Actions:** The mechanism of action in Dermatitis herpetiformis has not been established. By the kinetic method in mice, Dapsone is bactericidal as well as bacteriostatic against *Mycobacterium leprae*.

**Absorption and Excretion:** Dapsone, when given orally, is rapidly and almost completely absorbed. About 85 percent of the daily intake is recoverable from the urine mainly in the form of water-soluble metabolites. Excretion of the drug is slow and a constant blood level can be maintained with the usual dosage.

**Blood Levels:** Detected a few minutes after ingestion, the drug reaches peak concentration in 4-8 hours. Daily administration for at least eight days is necessary to achieve a plateau level. With doses of 200 mg daily, this level averaged 2.3 µg/mL with a range of 0.1-7.0 µg/mL. The half-life in the plasma in different individuals varies from ten hours to fifty hours and averages twenty-eight hours. Repeat tests in the same individual are constant. Daily administration (50 - 100 mg) in leprosy patients will provide blood levels in excess of the usual minimum inhibitory concentration even for patients with a short Dapsone half-life.

**INDICATIONS & USAGE**

Dermatitis herpetiformis: (D.H.)

Leprosy: All forms of leprosy except for cases of proven Dapsone resistance.

## **CONTRAINDICATIONS**

Hypersensitivity to Dapsone and/or its derivatives.

## **WARNINGS**

The patient should be warned to respond to the presence of clinical signs such as sore throat, fever, pallor, purpura or jaundice. Deaths associated with the administration of Dapsone have been reported from agranulocytosis, aplastic anemia and other blood dyscrasias. Complete blood counts should be done frequently in patients receiving Dapsone. The FDA Dermatology Advisory Committee recommended that, when feasible, counts should be done weekly for the first month, monthly for six months and semi-annually thereafter. If a significant reduction in leucocytes, platelets or hemopoiesis is noted, Dapsone should be discontinued and the patient followed intensively. Folic acid antagonists have similar effects and may increase the incidence of hematologic reactions; if co-administered with Dapsone the patient should be monitored more frequently. Patients on weekly pyrimethamine and Dapsone have developed agranulocytosis during the second and third month of therapy.

Severe anemia should be treated prior to initiation of therapy and hemoglobin monitored. Hemolysis and methemoglobin may be poorly tolerated by patients with severe cardiopulmonary disease.

Cutaneous reactions, especially bullous, include exfoliative dermatitis and are probably one of the most serious, though rare, complications of sulfone therapy. They are directly due to drug sensitization. Such reactions include toxic erythema, erythema multiforme, toxic epidermal necrolysis, morbilliform and scarlatiniform reactions, urticaria and erythema nodosum. If new or toxic dermatologic reactions occur, sulfone therapy must be promptly discontinued and appropriate therapy instituted. Leprosy reactional states, including cutaneous, are not hypersensitivity reactions to Dapsone and do not require discontinuation. See special section.

## **PRECAUTIONS**

### **General:**

Hemolysis and Heinz body formation may be exaggerated in individuals with a glucose-6-phosphate dehydrogenase (G6PD) deficiency, or methemoglobin reductase deficiency, or hemoglobin M. This reaction is frequently dose-related. Dapsone should be given with caution to these patients or if the patient is exposed to other agents or conditions such as infection or diabetic ketosis capable of producing hemolysis. Drugs or chemicals which have produced significant hemolysis in G6PD or methemoglobin reductase deficient patients include Dapsone, sulfanil amide, nitrite, aniline, phenylhydrazine, naphthalene, niridazole, nitro-furantoin and 8-amino-antimalarials such as primaquine. Toxic hepatitis and cholestatic jaundice have been reported early in therapy. Hyperbilirubinemia may occur more often in G6PD deficient patients. When feasible, baseline and subsequent monitoring of liver function is recommended; if abnormal, Dapsone should be discontinued until the source of the abnormality is established.

### **Falsely Reduced HbA1c:**

Falsely reduced HbA1c measurements have been reported with dapsone use. Alternate measures of glycemic control (e.g., fructosamine and/or more frequent blood glucose monitoring) are recommended when a discordance between HbA1c and blood glucose concentrations are observed or suspected. Falsely reduced HbA1c may occur without overt evidence of hemolysis or anemia.

### **Drug Interactions:**

Rifampin lowers Dapsone levels 7 to 10-fold by accelerating plasma clearance; in leprosy this reduction has not required a change in dosage. Folic acid antagonists such as pyrimethamine may increase the likelihood of hematologic reactions. A modest interaction has been reported for patients receiving 100 mg Dapsone daily in combination with trimethoprim 5 mg/kg q6h. On Day 7, the serum Dapsone levels averaged  $2.1 \pm 1.0$  µg/mL in comparison to  $1.5 \pm 0.5$  µg/mL for Dapsone alone. On Day 7, trimethoprim levels averaged  $18.4 \pm 5.2$  µg/mL in comparison to  $12.4 \pm 4.5$  µg/mL for patients not receiving Dapsone. Thus, there is a mutual interaction between Dapsone and trimethoprim in which each raises the level of the other about 1.5 times.

A crossover study<sup>1</sup> designed to assess the potential of a drug interaction between Dapsone, 100 mg/day and trimethoprim, 200 mg every 12 hours, in eight asymptomatic HIV positive volunteers (average CD4 count 524 cells/mm<sup>3</sup>) demonstrated that there was not a significant drug interaction between Dapsone and trimethoprim. However, an earlier report<sup>2</sup> also by Lee et al, in 78 HIV infected patients with acute *Pneumocystis carinii* pneumonia, receiving Dapsone, 100 mg/day and higher trimethoprim dose, 20 mg/kg/day, demonstrated that the serum levels of Dapsone were increased by 40% and trimethoprim levels were increased by 48% when the drugs were administered concurrently.

### **Carcinogenesis, Mutagenesis:**

Dapsone has been found carcinogenic (sarcomagenic) for male rats and female mice causing mesenchymal tumors in the spleen and peritoneum, and thyroid carcinoma in female rats. Dapsone is not mutagenic with or without microsomal activation in *S. typhimurium* tester strains 1535, 1537, 1538, 98, or 100.

### **Pregnancy:**

#### **Teratogenic Effects.**

Animal reproduction studies have not been conducted with Dapsone. Extensive, but uncontrolled experience and two published surveys on the use of Dapsone in pregnant women have not shown that Dapsone increases the risk of fetal abnormalities if administered during all trimesters of pregnancy or can affect reproduction capacity. Because of the lack of animal studies or controlled human experience, Dapsone should be given to a pregnant woman only if clearly needed. In general, for leprosy, USPHS at Carville recommends maintenance of Dapsone. Dapsone has been important for the management of some pregnant D.H. patients.

### **Nursing Mothers:**

Dapsone is excreted in breast milk in substantial amounts. Hemolytic reactions can occur in neonates. See section on hemolysis. Because of the potential for tumorigenicity shown for Dapsone in animal studies a decision should be made whether to discontinue nursing or discontinue the drug taking into account the importance of drug to the mother.

### **Pediatric Use:**

Pediatric patients are treated on the same schedule as adults but with correspondingly

smaller doses. Dapsone is generally not considered to have an effect on the later growth, development and functional development of the pediatric patient.

## **ADVERSE REACTIONS**

In addition to the warnings listed above, the following syndromes and serious reactions have been reported in patients on Dapsone.

### **Hematologic Effects:**

Dose-related hemolysis is the most common adverse effect and is seen in patients with or without G6PD deficiency. Almost all patients demonstrate the inter-related changes of a loss of 1-2g of hemoglobin, an increase in the reticulocytes (2-12%), a shortened red cell life span and a rise in methemoglobin. G6PD deficient patients have greater responses.

### **Nervous System Effects:**

Peripheral neuropathy is a definite but unusual complication of Dapsone therapy in non-leprosy patients. Motor loss is predominant. If muscle weakness appears, Dapsone should be withdrawn. Recovery on withdrawal is usually substantially complete. The mechanism of recovery is reported by axonal regeneration. Some recovered patients have tolerated retreatment at reduced dosage. In leprosy this complication may be difficult to distinguish from a leprosy reactional state.

### **Falsely Reduced HbA1c:**

Falsely reduced HbA1c measurements have been reported with dapsone use. Alternate measures of glycemic control (e.g., fructosamine and/or more frequent blood glucose monitoring) are recommended when a discordance between HbA1c and blood glucose concentrations are observed or suspected. Falsely reduced HbA1c may occur without overt evidence of hemolysis or anemia.

### **Body As A Whole:**

In addition to the warnings and adverse effects reported above, additional adverse reactions include: nausea, vomiting, abdominal pains, pancreatitis, vertigo, blurred vision, tinnitus, insomnia, fever, headache, psychosis, phototoxicity, pulmonary eosinophilia, tachycardia, albuminuria, the nephrotic syndrome, hypoalbuminemia without proteinuria, renal papillary necrosis, male infertility, drug-induced Lupus erythematosus and an infectious mononucleosis-like syndrome. In general, with the exception of the complications of severe anoxia from overdose (retinal and optic nerve damage, etc.) these adverse reactions have regressed off drug.

**To report SUSPECTED ADVERSE REACTIONS, contact Rising Pharma Holdings, Inc. at 1-844-874-7464 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

## **OVERDOSAGE**

Nausea, vomiting, hyperexcitability can appear a few minutes up to 24 hours after ingestion of an overdose. Methemoglobin induced depression, convulsions or severe cyanosis requires prompt treatment. In normal and methemoglobin reductase deficient patients, methylene blue, 1-2 mg/kg of body weight, given slowly intravenously, is the treatment of choice. The effect is complete in 30 minutes, but may have to be repeated

if methemoglobin reaccumulates. For non-emergencies, if treatment is needed, methylene blue may be given orally in doses of 3-5 mg/kg every 4-6 hours. Methylene blue reduction depends on G6PD and should not be given to fully expressed G6PD deficient patients.

## **DOSAGE & ADMINISTRATION**

### **Dermatitis herpetiformis:**

The dosage should be individually titrated starting in adults with 50 mg daily and correspondingly smaller doses in children. If full control is not achieved within the range of 50 - 300 mg daily, higher doses may be tried. Dosage should be reduced to a minimum maintenance level as soon as possible. In responsive patients there is a prompt reduction in pruritus followed by clearance of skin lesions. There is no effect on the gastrointestinal component of the disease.

Dapsone levels are influenced by acetylation rates. Patients with high acetylation rates, or who are receiving treatment affecting acetylation may require an adjustment in dosage.

A strict gluten free diet is an option for the patient to elect, permitting many to reduce or eliminate the need for Dapsone; the average time for dosage reduction is 8 months with a range of 4 months to 2 1/2 years and for dosage elimination 29 months with a range of 6 months to 9 years.

### **Leprosy:**

In order to reduce secondary Dapsone resistance, the WHO Expert Committee on Leprosy and the USPHS at Carville, LA, recommended that Dapsone should be commenced in combination with one or more anti-leprosy drugs. In the multidrug program Dapsone should be maintained at the full dosage of 100 mg daily without interruption (with corresponding smaller doses for children) and provided to all patients who have sensitive organisms with new or recrudescence disease or who have not yet completed a two year course of Dapsone monotherapy. For advice and other drugs, the USPHS at Carville, LA (1- 800-642-2477) should be contacted. Before using other drugs consult appropriate product labeling.

In bacteriologically negative tuberculoid and indeterminate disease, the recommendation is the coadministration of Dapsone 100 mg daily with six months of Rifampin 600 mg daily. Under WHO, daily Rifampin may be replaced by 600 mg Rifampin monthly, if supervised. The Dapsone is continued until all signs of clinical activity are controlled usually after an additional six months. Then Dapsone should be continued for an additional three years for tuberculoid and indeterminate patients and for five years for borderline tuberculoid patients.

In lepromatous and borderline lepromatous patients, the recommendation is the co-administration of Dapsone 100 mg daily with two years of Rifampin 600 mg daily. Under WHO daily Rifampin may be replaced by 600 mg Rifampin monthly, if supervised. One may elect the concurrent administration of a third anti-leprosy drug, usually either Clofazamine 50-100 mg daily or Ethionamide 250-500 mg daily. Dapsone 100 mg daily is continued 3-10 years until all signs of clinical activity are controlled with skin scrapings and biopsies negative for one year. Dapsone should then be continued for an additional 10 years for borderline patients and for life for lepromatous patients.

Secondary Dapsone resistance should be suspected whenever a lepromatous or borderline lepromatous patient receiving Dapsone treatment relapses clinically and bacteriologically, solid staining bacilli being found in the smears taken from the new active lesions. If such cases show no response to regular and supervised Dapsone therapy within three to six months or good compliance for the past 3-6 months can be assured, Dapsone resistance should be considered confirmed clinically. Determination of drug sensitivity using the mouse footpad method is recommended and, after prior arrangement, is available without charge from the USPHS, Carville, LA. Patients with proven Dapsone resistance should be treated with other drugs.

## **LEPROSY REACTIONAL STATES**

Abrupt changes in clinical activity occur in leprosy with any effective treatment and are known as reactional states. The majority can be classified into two groups.

The “Reversal” reaction (Type 1) may occur in borderline or tuberculoid leprosy patients often soon after chemotherapy is started. The mechanism is presumed to result from a reduction in the antigenic load: the patient is able to mount an enhanced delayed hypersensitivity response to residual infection leading to swelling (“Reversal”) of existing skin and nerve lesions. If severe, or if neuritis is present, large doses of steroids should always be used. If severe, the patient should be hospitalized. In general anti-leprosy treatment is continued and therapy to suppress the reaction is indicated such as analgesics, steroids, or surgical decompression of swollen nerve trunks. USPHS at Carville, LA should be contacted for advice in management.

Erythema nodosum leprosum (ENL) (lepromatous reaction) (Type 2 reaction) occurs mainly in lepromatous patients and small numbers of borderline patients. Approximately 50% of treated patients show this reaction in the first year. The principal clinical features are fever and tender erythematous skin nodules sometimes associated with malaise, neuritis, orchitis, albuminuria, joint swelling, iritis, epistaxis or depression. Skin lesions can become pustular and/or ulcerate. Histologically there is a vasculitis with an intense polymorphonuclear infiltrate. Elevated circulating immune complexes are considered to be the mechanism of reaction. If severe, patients should be hospitalized. In general, anti-leprosy treatment is continued. Analgesics, steroids, and other agents available from USPHS, Carville, LA, are used to suppress the reaction.

## **HOW SUPPLIED**

Dapsone Tablets USP, 25 mg are available as round, white to off-white, biconvex tablet debossed with C119 on one side and break line on other side.

Bottle of 30 Tablets      NDC 64980-567-03

Bottle of 100 Tablets      NDC 64980-567-01

Dapsone Tablets USP, 100 mg are available as round, white to off-white, biconvex tablet debossed with R193 on one side and break line on other side.

Bottle of 30 Tablets      NDC 64980-566-03

Bottle of 100 Tablets      NDC 64980-566-01

Store at 20°- 25° C (68°- 77°F) [see USP Controlled Room Temperature]. Protect from light.

Rx only. Keep this and all drugs out of the reach of children.

## REFERENCES

1. Lee, B., et al., Zidovudine, Trimethoprim, and Dapsone Pharmacokinetic Interactions in Patients with HIV Infection. *Antimicrobial Agents and Chemotherapy* , May 1996; 1231-1236.
2. Lee, B., et al., Dapsone, Trimethoprim, and Sulfamethoxazole Plasma Levels During Treatment of Pneumocystis Carinii Pneumonia in Patients with AIDS, *Annals of Internal Medicine* , 1989; 110:606-611.

## Manufactured for:

Rising Pharma Holdings, Inc.  
East Brunswick, NJ 08816

Made in India

Neutral Code: 4288425/TS/DRUGS/2025

**Revised:** 05/2025

PIR56601-05

## PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

Rising Pharmaceuticals, Inc.

Dapsone Tablets, USP

NDC 64980-566-01

100 mg (100 Tablets)

Rx only


**NDC 64980-566-01**

**Dapsone Tablets, USP**

**100 mg**

Caution: Federal law prohibits dispensing without prescription. Dispense this product in a well closed, light-resistant container with child resistant closure.

**100 Tablets**


**Rx only**

Each tablet contains: Dapsone, USP 100 mg.

**Usual Dosage** read accompanying descriptive literature.

Store at 20° - 25°C (68° - 77°F) (see USP Controlled Room Temperature). Protect from light.

**Manufactured for:**  
Rising Pharma Holdings, Inc.  
East Brunswick, NJ 08816  
Made in India  
Neutral Code: 4288425/TS/DRUGS/2025  
Revised: 05/2025  
LR56601-01



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Rising Pharmaceuticals, Inc.

Dapsone Tablets, USP

NDC 64980-567-01

25 mg (100 Tablets)

Rx only


**NDC 64980-567-01**

**Dapsone Tablets, USP**

**25 mg**

Caution: Federal law prohibits dispensing without prescription. Dispense this product in a well closed, light-resistant container with child resistant closure.

**100 Tablets**

**Rx only**

Each tablet contains: Dapsone, USP 25 mg.

**Usual Dosage** read accompanying descriptive literature.

Store at 20° - 25°C (68° - 77°F) (see USP Controlled Room Temperature). Protect from light.

**Manufactured for:**  
Rising Pharma Holdings, Inc.  
East Brunswick, NJ 08816  
Made in India  
Neutral Code: 4288425/TS/DRUGS/2025  
Revised: 05/2025  
LR56701-02



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## DAPSONE

dapsone tablet

### Product Information

|                                |                         |                           |               |
|--------------------------------|-------------------------|---------------------------|---------------|
| <b>Product Type</b>            | HUMAN PRESCRIPTION DRUG | <b>Item Code (Source)</b> | NDC:64980-566 |
| <b>Route of Administration</b> | ORAL                    |                           |               |

### Active Ingredient/Active Moiety

| Ingredient Name                                               | Basis of Strength | Strength |
|---------------------------------------------------------------|-------------------|----------|
| <b>DAPSONE</b> (UNII: 8W5C518302) (DAPSONE - UNII:8W5C518302) | DAPSONE           | 100 mg   |

### Inactive Ingredients



| Ingredient Name                                        | Strength |
|--------------------------------------------------------|----------|
| MAGNESIUM STEARATE (UNII: 70097M6I30)                  |          |
| CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)         |          |
| STARCH, CORN (UNII: O8232NY3SJ)                        |          |
| SODIUM LAURYL SULFATE (UNII: 368GB5141J)               |          |
| STEARIC ACID (UNII: 4ELV7Z 65AP)                       |          |
| SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B) |          |

### Product Characteristics

|          |                            |              |          |
|----------|----------------------------|--------------|----------|
| Color    | WHITE (White to off white) | Score        | 2 pieces |
| Shape    | ROUND                      | Size         | 8mm      |
| Flavor   |                            | Imprint Code | R193     |
| Contains |                            |              |          |

### Packaging

| # | Item Code        | Package Description                                | Marketing Start Date | Marketing End Date |
|---|------------------|----------------------------------------------------|----------------------|--------------------|
| 1 | NDC:64980-566-01 | 100 in 1 BOTTLE; Type 0: Not a Combination Product | 12/11/2022           |                    |
| 2 | NDC:64980-566-03 | 30 in 1 BOTTLE; Type 0: Not a Combination Product  | 07/12/2023           |                    |

### Marketing Information

| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
|--------------------|------------------------------------------|----------------------|--------------------|
| ANDA               | ANDA207165                               | 12/11/2022           |                    |

## DAPSONE

dapsone tablet

### Product Information

|                         |                         |                    |               |
|-------------------------|-------------------------|--------------------|---------------|
| Product Type            | HUMAN PRESCRIPTION DRUG | Item Code (Source) | NDC:64980-567 |
| Route of Administration | ORAL                    |                    |               |

### Active Ingredient/Active Moiety

| Ingredient Name                                        | Basis of Strength | Strength |
|--------------------------------------------------------|-------------------|----------|
| DAPSONE (UNII: 8W5C518302) (DAPSONE - UNII:8W5C518302) | DAPSONE           | 25 mg    |

### Inactive Ingredients

| Ingredient Name                       | Strength |
|---------------------------------------|----------|
| MAGNESIUM STEARATE (UNII: 70097M6I30) |          |

|                                                               |  |
|---------------------------------------------------------------|--|
| <b>CELLULOSE, MICROCRYSTALLINE</b> (UNII: OP1R32D61U)         |  |
| <b>STARCH, CORN</b> (UNII: O8232NY3SJ)                        |  |
| <b>SODIUM LAURYL SULFATE</b> (UNII: 368GB5141J)               |  |
| <b>STEARIC ACID</b> (UNII: 4ELV7Z65AP)                        |  |
| <b>SODIUM STARCH GLYCOLATE TYPE A CORN</b> (UNII: AG9B65PV6B) |  |

### Product Characteristics

|                 |                            |                     |          |
|-----------------|----------------------------|---------------------|----------|
| <b>Color</b>    | WHITE (White to off white) | <b>Score</b>        | 2 pieces |
| <b>Shape</b>    | ROUND                      | <b>Size</b>         | 5mm      |
| <b>Flavor</b>   |                            | <b>Imprint Code</b> | C119     |
| <b>Contains</b> |                            |                     |          |

### Packaging

| # | Item Code        | Package Description                                | Marketing Start Date | Marketing End Date |
|---|------------------|----------------------------------------------------|----------------------|--------------------|
| 1 | NDC:64980-567-01 | 100 in 1 BOTTLE; Type 0: Not a Combination Product | 07/20/2023           |                    |
| 2 | NDC:64980-567-03 | 30 in 1 BOTTLE; Type 0: Not a Combination Product  | 08/29/2023           |                    |

### Marketing Information

| Marketing Category | Application Number or Monograph Citation | Marketing Start Date | Marketing End Date |
|--------------------|------------------------------------------|----------------------|--------------------|
| ANDA               | ANDA207165                               | 07/20/2023           |                    |

**Labeler -** Rising Pharma Holdings, Inc. (116880195)

### Establishment

| Name                          | Address | ID/FEI    | Business Operations                                                                                                           |
|-------------------------------|---------|-----------|-------------------------------------------------------------------------------------------------------------------------------|
| Casper Pharma Private Limited |         | 854125972 | ANALYSIS(64980-566, 64980-567) , LABEL(64980-566, 64980-567) , MANUFACTURE(64980-566, 64980-567) , PACK(64980-566, 64980-567) |

Revised: 5/2025

Rising Pharma Holdings, Inc.