

N-acetyl Dapsone

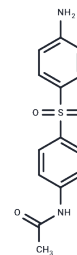
Chemical Properties

CAS No. : 565-20-8

Formula: C₁₄H₁₄N₂O₃S

Molecular Weight: 290.34

Storage: Store at low temperature, Keep away from direct sunlight, Store under nitrogen
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|--|
| Description | N-acetyl Dapsone is an anti-inflammatory and antimicrobial compound widely used in the treatment of leprosy, malaria, acne and various immune disorders. |
| Targets(IC50) | Antibacterial, Parasite, Drug Metabolite |

Solubility Information

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|------------|--|
| Solubility | DMSO: 30 mg/mL (103.33 mM), Sonication is recommended. DMSO:PBS (pH 7.2) (1:1): 0.5 mg/mL (1.72 mM), Sonication is recommended. DMF: 30 mg/mL (103.33 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.4442 mL | 17.2212 mL | 34.4424 mL |
| 5 mM | 0.6888 mL | 3.4442 mL | 6.8885 mL |
| 10 mM | 0.3444 mL | 1.7221 mL | 3.4442 mL |
| 50 mM | 0.0689 mL | 0.3444 mL | 0.6888 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jarratt MT, et al. Safety and Pharmacokinetics of Once-Daily Dapsone Gel, 7.5% in Patients With Moderate Acne Vulgaris. *J Drugs Dermatol*. 2016;15(10):1250-1259.

Lemng MM, et al. Simultaneous determination of dapsone, monoacetyldapsone and pyrimethamine in whole blood and plasma by high-performance liquid chromatography. *J Chromatogr*. 1993;613(2):340-346.

Carr K, et al. Simultaneous analysis of dapsone and monoacetyldapsone employing high performance liquid chromatography: a rapid method for determination of acetylator phenotype. *Br J Clin Pharmacol*. 1978;6(5):421-427.

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