

Product Data Sheet

Product Name: Dapsone
Cat. No.: GC16306

Chemical Properties

Cas. No. 80-08-0

Chemical Name 4,4'-sulfonyldianiline

SMILES NC1=CC=C(S(C2=CC=C(N)C=C2)(=O)=O)C=C1

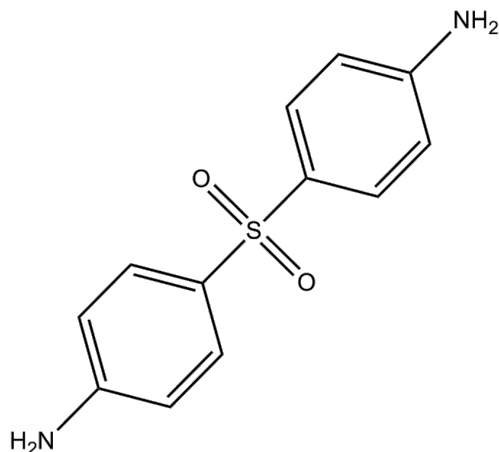
Formula $C_{12}H_{12}N_2O_2S$ M.Wt 248.3

Solubility $\geq 8.35\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

Dapsone is a sulfone active against a wide range of bacteria but mainly employed for its actions against mycobacterium leprae. Target: Antibacterial Dapsone is an antibacterial most commonly used in combination with rifampicin and clofazimine as multidrug therapy (MDT) for the treatment of Mycobacterium leprae infections (leprosy). Dapsone antagonized all of the I/R end points measured, showing a remarkable ability to decrease markers of damage through antioxidant, antiinflammatory, and anti-apoptotic effects [1]. As an antibacterial, dapsone inhibits bacterial synthesis of dihydrofolic acid, via competition with para-aminobenzoate for the active site of dihydropteroate synthetase. Dapsone has anti-inflammatory and immunomodulatory effects [2].

References:

- [1]. Diaz-Ruiz, A., et al., Antioxidant, antiinflammatory and antiapoptotic effects of dapsone in a model of brain ischemia/reperfusion in rats. J Neurosci Res, 2008. 86(15): p. 3410-9.
- [2]. Begon, E., O. Chosidow, and P. Wolkenstein, [Disulone]. Ann Dermatol Venereol, 2004. 131(12): p. 1062-73.

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