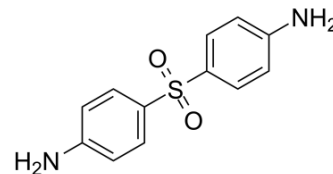


Dapsone

Cat. No.:	HY-B0688		
CAS No.:	80-08-0		
Molecular Formula:	C ₁₂ H ₁₂ N ₂ O ₂ S		
Molecular Weight:	248.3		
Target:	Bacterial; Reactive Oxygen Species		
Pathway:	Anti-infection; Immunology/Inflammation; Metabolic Enzyme/ProteaseNF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 34 mg/mL (136.93 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		4.0274 mL	20.1369 mL	40.2739 mL
	5 mM		0.8055 mL	4.0274 mL	8.0548 mL
	10 mM		0.4027 mL	2.0137 mL	4.0274 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

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.

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

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