Salsolidine

Cat. No.:	HY-22385				
CAS No.:	5784-74-7				
Molecular Formula:	C ₁₂ H ₁₇ NO ₂				
Molecular Weight:	207.27				
Target:	Monoamine Oxidase				
Pathway:	Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (241.23 mM; ultrasonic and warming and heat to 60°C)					
Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	4.8246 mL	24.1231 mL	48.2462 mL	
		5 mM	0.9649 mL	4.8246 mL	9.6493 mL	
		10 mM	0.4825 mL	2.4123 mL	4.8246 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (12.06 mM); Clear solution					
	2. Add each solvent Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% (20 g/mL (12.06 mM); Clear solution	% SBE-β-CD in saline)			

BIOLOGICAL ACTIV					
Description	Salsolidine is a tetrahydroisoquinoline alkaloid, acts as a stereoselective competitive MAO A inhibitor.				
IC ₅₀ & Target	MAO A ^[1]				
In Vitro	Salsolidine is a tetrahydroisoquinoline alkaloid, acts as a stereoselective competitive MAO A inhibitor. The R-salsolidine is more active against MAO A than S-salsolidine (K _i =6 μM and 186 μM, respectively) ^[1] . Salsolidine weakly inhibits the binding of δ-receptor, with a K _i of >100 μM ^[2] . Salsolidine has the potential of inhibiting Acetylcholinestearse and butyrylcholinesterase ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

Product Data Sheet

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• bioRxiv. 2023 Jun 3.

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REFERENCES

[1]. Bembenek ME, et al. Inhibition of monoamine oxidases A and B by simple isoquinoline alkaloids: racemic and optically active 1,2,3,4-tetrahydro-, 3,4-dihydro-, and fully aromatic isoquinolines. J Med Chem. 1990 Jan;33(1):147-52.

[2]. Airaksinen MM, et al. Binding of beta-carbolines and tetrahydroisoquinolines by opiate receptors of the delta-type. Acta Pharmacol Toxicol (Copenh). 1984 Nov;55(5):380-5.

[3]. Tundis R, et al. A potential role of alkaloid extracts from Salsola species (Chenopodiaceae) in the treatment of Alzheimer's disease. J Enzyme Inhib Med Chem. 2009 Jun;24(3):818-24.

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