Tetrabenazine Racemate

Cat. No.:	HY-B0590A				
CAS No.:	718635-93-9				
Molecular Formula:	C ₁₉ H ₂₇ NO ₃				
Molecular Weight:	317.42				
Target:	Monoamine Transporter				
Pathway:	Membrane Transporter/Ion Channel				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (157.52 mM; Need ultrasonic)						
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	3.1504 mL	15.7520 mL	31.5040 mL		
	5 mM	0.6301 mL	3.1504 mL	6.3008 mL			
		10 mM	0.3150 mL	1.5752 mL	3.1504 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.88 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.88 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.88 mM); Clear solution						

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Description	Tetrabenazine Racemate (Ro 1-9569 Racemate) is a selective and reversible inhibitor of vesicular monoamine transporter-2 (VMAT-2).(1) The reference for administration is 0.25-0.75 mg/kg IP(2) Injections of tetrabenazine into accumbens core also reduced FR5 lever pressing and increased chow intake. (3) Tetrabenazine (Racemate) reduced extracellular DA and altered DARPP-32 signaling in both substance-P- and enkephalin-containing accumbens neurons. (4) Tetrabenazine (Racemate) inhibits locomotor activity and produces hypothermia upon systemic administration in rats and mice.

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Product Data Sheet





REFERENCES

[1]. Nunes EJ et al. Effort-related motivational effects of the VMAT-2 inhibitor tetrabenazine: implications for animal models of the motivational symptoms of depression. J Neurosci. 2013 Dec 4;33(49):19120-30.

[2]. Podurgiel SJ et al. The vesicular monoamine transporter (VMAT-2) inhibitor tetrabenazine induces tremulous jaw movements in rodents: implications for pharmacological models of parkinsonian tremor. Neuroscience. 2013 Oct 10;250:507-19.

[3]. Reches A et al. Tetrabenazine, an amine-depleting drug, also blocks dopamine receptors in rat brain. J Pharmacol Exp Ther. 1983 Jun;225(3):515-21.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA