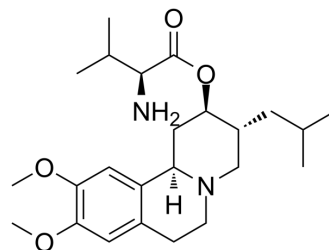


Valbenazine

Cat. No.:	HY-16771		
CAS No.:	1025504-45-3		
Molecular Formula:	C ₂₄ H ₃₈ N ₂ O ₄		
Molecular Weight:	418.57		
Target:	Monoamine Transporter		
Pathway:	Membrane Transporter/Ion Channel		
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 : 50 mg/mL (119.45 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3891 mL	11.9454 mL	23.8909 mL
		5 mM	0.4778 mL	2.3891 mL	4.7782 mL
10 mM		0.2389 mL	1.1945 mL	2.3891 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 (5.97 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Valbenazine (NBI-98854) is a vesicular monoamine transporter 2 (VMAT2) inhibitor with the K _i of 110-190 nM ^[1] .
In Vitro	Valbenazine exhibits VMAT2 binding affinity in rat striatum and human platelets with K _i s of 110 and 150 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Valbenazine (10 mg/kg; orally) induces ptosis (primarily an adrenergic response) and increases plasma prolactin primarily a dopaminergic response in rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Crit Rev Anal Chem. 2021 Mar 10;1-15.

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REFERENCES

- [1]. Dimitri E Grigoriadis, et al. Pharmacologic Characterization of Valbenazine (NBI-98854) and Its Metabolites. J Pharmacol Exp Ther. 2017 Jun;361(3):454-461.
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Caution: Product has not been fully validated for medical applications. For research use only.

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