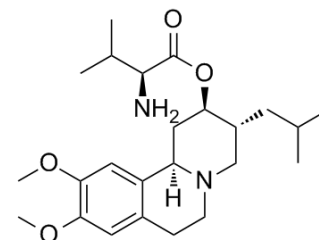


Valbenazine

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)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Mass	1 mg	5 mg	10 mg
	Concentration			
	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

- 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
- 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] .
In Vivo	Valbenazine (10 mg/kg; orally) induces ptosis (primarily an adrenergic response) and increases plasma prolactin primarily a dopaminergic response in rats ^[1] .

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.

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

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