Valbenazine

Cat. No.: HY-16771

CAS No.: 1025504-45-3

Molecular Formula: $C_{24}H_{38}N_2O_4$

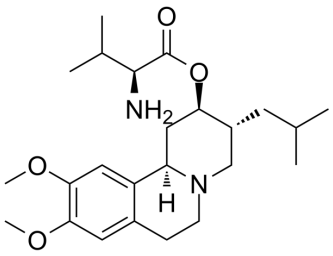
Molecular Weight: 418.57

Target: Monoamine Transporter

Pathway: Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (119.45 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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 Kis 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].

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CUSTOMER VALIDATION

- Crit Rev Anal Chem. 2021 Mar 10;1-15.
- Toxicol Appl Pharmacol. 2023 Aug 28;116674.

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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.

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