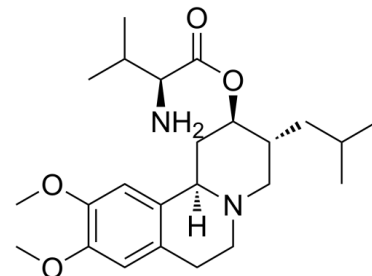


Data Sheet

Product Name:	Valbenazine
Cat. No.:	CS-5908
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
Solubility:	DMSO : 50 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

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_is 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.

CAIndexNames:

L-Valine, (2R,3R,11bR)-1,3,4,6,7,11b-hexahydro-9,10-dimethoxy-3-(2-methylpropyl)-2H-benzo[a]quinolizin-2-yl ester

SMILES:

O=C([C@@H](N)C(C)C)O[C@@H]1C[C@]2([H])C3=CC(OC)=C(OC)C=C3CCN2C[C@H]1CC(C)C

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

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