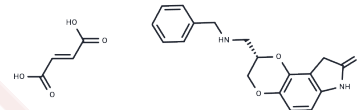


Aplindore Fumarate

Chemical Properties

CAS No. :	189681-71-8
Formula:	C ₂₂ H ₂₂ N ₂ O ₇
Molecular Weight:	426.42
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Aplindore Fumarate (DAB-452) is a small molecule dopamine D2 receptor partial agonist. Aplindore Fumarate exhibits high affinity for dopamine D2 and D3 receptors, and low affinity for dopamine D4, 5-hydroxytryptophan (5-HT ₂), and α 1-adrenergic receptors. Aplindore Fumarate is used in the study of Parkinson's disease and schizophrenia. Fumarate can be used to study Parkinson's and schizophrenia.
Targets(IC50)	5-HT Receptor, Adrenergic Receptor, Dopamine Receptor

Solubility Information

Solubility	DMSO: 50 mg/mL (117.26 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3451 mL	11.7255 mL	23.4511 mL
5 mM	0.469 mL	2.3451 mL	4.6902 mL
10 mM	0.2345 mL	1.1726 mL	2.3451 mL
50 mM	0.0469 mL	0.2345 mL	0.469 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Heinrich JN, et al. Aplindore (DAB-452), a high affinity selective dopamine D2 receptor partial agonist. Eur J Pharmacol. 2006 Dec 15;552(1-3):36-45.

Jackson MJ, et al. The dopamine D(2) receptor partial agonist aplindore improves motor deficits in MPTP-treated common marmosets alone and combined with L-dopa. J Neural Transm (Vienna). 2010 Jan;117(1):55-67.

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