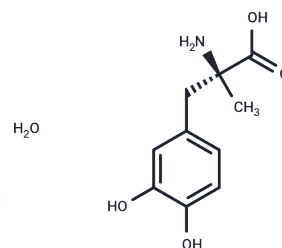


Methyldopa hydrate

Chemical Properties

CAS No. :	41372-08-1
Formula:	C ₁₀ H ₁₃ NO ₄ ·3/2H ₂ O
Molecular Weight:	238.24
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	Methyldopa hydrate (MK-351 hydrate) is a DOPA decarboxylase inhibitor and indirect α 2-adrenergic receptor agonist used to treat hypertension. It inhibits the sympathetic nervous system, decreases production of dopamine, norepinephrine, and epinephrine, and exhibits NO-dependent sedative activity.
Targets(IC50)	Endogenous Metabolite, Adrenergic Receptor, Dopamine Receptor

Solubility Information

Solubility	DMSO: 12 mg/mL (50.37 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.39 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1974 mL	20.9872 mL	41.9745 mL
5 mM	0.8395 mL	4.1974 mL	8.3949 mL
10 mM	0.4197 mL	2.0987 mL	4.1974 mL
50 mM	0.0839 mL	0.4197 mL	0.8395 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

Baila M R , Cintas J A . [The use of the combination of L-alpha-methyldopa and dichlorothiazide in the treatment of arterial hypertension][J]. El Día Médico, 1962, 34:2422.

Program N T . NTP Toxicology and Carcinogenesis Studies of alpha-Methyldopa Sesquihydrate (CAS No. 41372-08-1) in F344/N Rats and B6C3F1 Mice (Feed Studies).[J]. National Toxicology Program Technical Report, 1989, 348.

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