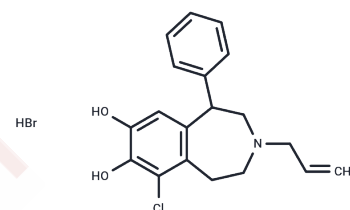


SKF-82958 hydrobromide

Chemical Properties

CAS No. :	74115-01-8
Formula:	C ₁₉ H ₂₁ BrClNO ₂
Molecular Weight:	410.73
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	SKF-82958 hydrobromide is a D1/D5 receptor full agonist.
Targets(IC50)	Others,Dopamine Receptor
In vitro	Neuropeptide and immediate early gene expression in striatonigral neurons of the normotensive striatum is induced by mixed D1 receptor SKF-82958, which induces behavioral activity and preprodynorphin (PPD) and substance P (SP) gene expression in medium spiny neurons in the dorsal, and especially, in the ventral striatum.
In vivo	Quantitative in situ hybridization was used to examine the contribution of muscarinic receptors to the transsynaptic regulation of striatal gene expression induced by D1receptor activation. The acute injection of the full D1 agonist, SKF-82958, would induce PPD, SP, and PPE mRNA expression in the intact rat striatum.

Solubility Information

Solubility	DMSO: 102.5 mg/mL (249.56 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: 3.3 mg/mL (8.03 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	2.4347 mL	12.1734 mL	24.3469 mL
5 mM	0.4869 mL	2.4347 mL	4.8694 mL
10 mM	0.2435 mL	1.2173 mL	2.4347 mL
50 mM	0.0487 mL	0.2435 mL	0.4869 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

Wang JQ, et al. The Full D1 Dopamine Receptor Agonist SKF-82958 Induces Neuropeptide mRNA in the Normosensitive Striatum of Rats: Regulation of D1/D2 Interactions by Muscarinic Receptors. *J Pharmacol Exp Ther.* 1997 May;281(2):972-82.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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