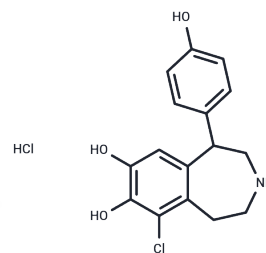


Fenoldopam

Chemical Properties

CAS No. :	67227-56-9
Formula:	C ₁₆ H ₁₆ ClNO ₃
Molecular Weight:	305.76
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	Fenoldopam is a selective D1-like dopamine receptor partial agonist (EC ₅₀ = 57 nM).
Targets(IC ₅₀)	Others,Dopamine Receptor
In vitro	Fenoldopam is also α 2-adrenoceptor antagonist in vitro (K _i = 15 - 25 nM).
In vivo	Fenoldopam is a vasodilator in vivo and does not readily cross the blood-brain barrier.

Solubility Information

Solubility	DMSO: \geq 15.29 mg/mL,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	3.2705 mL	16.3527 mL	32.7054 mL
5 mM	0.6541 mL	3.2705 mL	6.5411 mL
10 mM	0.3271 mL	1.6353 mL	3.2705 mL
50 mM	0.0654 mL	0.3271 mL	0.6541 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

Teng X, Chen S, Nie Y, et al. Ligand recognition and biased agonism of the D1 dopamine receptor. Nature Communications. 2022, 13(1): 1-11

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