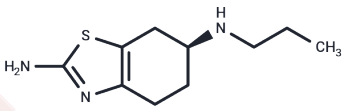
Data Sheet (Cat.No.T1476)

TargetMol

Pramipexole

Chemical Properties



CAS No. : 104632-26-0

Formula: C10H17N3S

Molecular Weight: 211.33

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	Pramipexole (SND 919) is a selective dopamine receptor agonist used in the therapy of Parkinson disease. Pramipexole therapy is associated with a low rate of transient serum enzyme elevations during treatment but has not been implicated in cases of clinically apparent acute liver injury.
Targets(IC50)	Dopamine Receptor

Solubility Information

Solubility	DMSO: 75 mg/mL (354.9 mM),Sonication is recommended. H2O: 8.93 mg/mL (42.26 mM),Sonication is recommended. Ethanol: 39 mg/mL (184.55 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 (9.46 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7319 mL	23.6597 mL	47.3194 mL
5 mM	0.9464 mL	4.7319 mL	9.4639 mL
10 mM	0.4732 mL	2.366 mL	4.7319 mL
50 mM	0.0946 mL	0.4732 mL	0.9464 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

Kvernmo T, et al. Curr Top Med Chem. 2008;8(12):1049-67.
Xu P, Huang S, Mao C, et al. Structures of the human dopamine D3 receptor-Gi complexes. Molecular Cell. 2021 Mar 18;81(6):1147-1159.e4. doi: 10.1016/j.molcel.2021.01.003. Epub 2021 Feb 5.
Xu Z, Guo L, Yu J, et al.Ligand recognition and G protein coupling of trace amine receptor TAAR1.Nature.2023: 1-3.