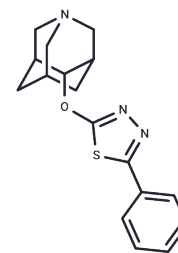


## Nelonicline

## Chemical Properties

CAS No. :	1026134-63-3
Formula:	C17H19N3OS
Molecular Weight:	313.42
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	Nelonicline is a selective agonist of neuronal nicotinic receptors.
Targets(IC50)	AChR, Adenosine Receptor
In vivo	Nelonicline (0.03 mg/kg) treatment, has no significant effect on LIDs. The effect of Nelonicline (1.0 mg/kg) is also tested for its ability to reduce LIDs at a higher dose of L-dopa (15 mg/kg)/carbidopa (3.75 mg/kg). The higher dose of L-dopa leads to greater LID scores in vehicle-treated monkeys. Nelonicline treatment reduces LIDs by 70%, after the morning dose of L-dopa and 60% after the afternoon dose. The effect of Nelonicline is most pronounced during the latter weeks, possibly because of a greater decline with continued drug treatment. Nelonicline (0.10 mg/kg) treatment, decreases LIDs by ~40%, while the 0.30 and 1.0 mg/kg Nelonicline doses decrease LIDs up to ~60%. These data indicate that Nelonicline would be useful as an antidyskinetic drug in Parkinson's disease.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1906 mL	15.953 mL	31.9061 mL
5 mM	0.6381 mL	3.1906 mL	6.3812 mL
10 mM	0.3191 mL	1.5953 mL	3.1906 mL
50 mM	0.0638 mL	0.3191 mL	0.6381 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

ARYL SULFONOHYDRAZIDES. WO2015168616A1.

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