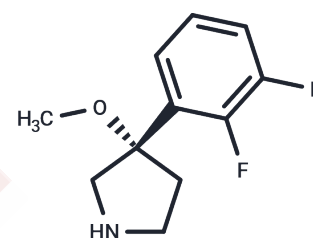


## Pirepemat

## Chemical Properties

CAS No. :	1227638-29-0
Formula:	C <sub>11</sub> H <sub>13</sub> F <sub>2</sub> NO
Molecular Weight:	213.22
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	Pirepemat (IRL752) is a cortical-preferring catecholamine agent that enhances cognition. It is utilized in the investigation of Parkinson's disease.
Targets(IC50)	Others,Adrenergic Receptor,Cholinesterase (ChE),Dopamine Receptor
In vitro	IRL752 demonstrated its highest in vitro affinities for 5-HT and NA-related targets[2].
In vivo	IRL752 (3.7-100 μmol/kg, s.c.), administered 30 minutes before testing in normal rats, did not significantly alter acute hyperdopaminergic or hypoglutamatergic motor responses. However, it effectively reversed motor deficits attributed to diminished monoaminergic function[2]. This compound induced dose-dependent and region-specific changes in indices of brain monoamine transmission and gene expression, without additional explanation, maintaining the original terminology and format requested.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.690 mL	23.450 mL	46.8999 mL
5 mM	0.938 mL	4.690 mL	9.380 mL
10 mM	0.469 mL	2.345 mL	4.690 mL
50 mM	0.0938 mL	0.469 mL	0.938 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

Ipsen and IRLAB Enter Exclusive Worldwide Licensing Agreement Aimed to Improve the Lives of People Living with Parkinson's Disease.

S Hjorth, et al. (3 S)-3-(2,3-difluorophenyl)-3-methoxypyrrolidine (IRL752) -a Novel Cortical-Preferring Catecholamine Transmission- and Cognition-Promoting Agent. J Pharmacol Exp Ther. 2020 Sep;374(3):404-419.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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