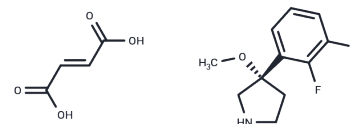


Pirepemat fumarate

Chemical Properties

CAS No. :	2251806-70-7
Formula:	C ₁₅ H ₁₇ F ₂ N ₂ O ₅
Molecular Weight:	329.3
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Pirepemat (IRL752) fumarate can be used in Parkinson's disease study. Pirepemat is a cortical-preferring catecholamine transmission- and cognition-promoting agent [1] [2].
In vitro	IRL752 fumarate exhibits its strongest in vitro affinities primarily for serotonin (5-HT) and norepinephrine (NA)-related targets [2].
In vivo	IRL752 fumarate, administered subcutaneously at dosages ranging from 3.7 to 100 µmol/kg, does not significantly influence acute hyperdopaminergic or hypoglutamatergic motor responses. However, it effectively reverses impairments associated with reduced monoaminergic function. In normal rats tested 30 minutes after administration, IRL752 induced dose-dependent and region-specific changes in brain monoamine transmission indices and gene expression, showcasing its potential in modulating neurotransmitter system dysfunctions.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0367 mL	15.1837 mL	30.3674 mL
5 mM	0.6073 mL	3.0367 mL	6.0735 mL
10 mM	0.3037 mL	1.5184 mL	3.0367 mL
50 mM	0.0607 mL	0.3037 mL	0.6073 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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