

## I2-IRs ligand-1

## Chemical Properties

CAS No. :

Formula: C<sub>21</sub>H<sub>23</sub>ClFN<sub>2</sub>O<sub>4</sub>P

Molecular Weight: 452.84

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	I2-IRs ligand-1 (Compound 12d) is an orally active compound capable of crossing the blood-brain barrier. It exhibits high affinity for imidazoline I2 receptors (I2-IRs) with a pKi of 9.98. This compound can enhance cognitive deficits in aging mice and possesses analgesic, anti-inflammatory, and neuroprotective properties. I2-IRs ligand-1 is applicable for research in Alzheimer's disease and related pain disorders.
Targets(IC50)	Imidazoline Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2083 mL	11.0414 mL	22.0829 mL
5 mM	0.4417 mL	2.2083 mL	4.4166 mL
10 mM	0.2208 mL	1.1041 mL	2.2083 mL
50 mM	0.0442 mL	0.2208 mL	0.4417 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.

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