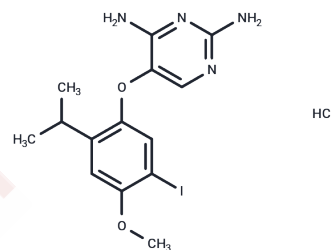


## AF-353 hydrochloride

## Chemical Properties

CAS No. :	927887-18-1
Formula:	C <sub>14</sub> H <sub>17</sub> N <sub>4</sub> O <sub>2</sub> ·HCl
Molecular Weight:	436.68
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	This novel compound is an orally bioavailable antagonist of P2X <sub>3</sub> /P2X <sub>2/3</sub> receptors, exhibiting potent activity with a pIC <sub>50</sub> of 8 in both human and rat, and a pIC <sub>50</sub> of 7.3 specifically for the human P2X <sub>2/3</sub> receptor. It demonstrates high brain penetration, evidenced by a brain to plasma ratio of 6, and effectively blocks agonist-evoked intracellular Ca <sup>2+</sup> flux and inward currents within the nanomolar range (10 nM to 1 μM) in cell lines that express human P2X <sub>3</sub> and P2X <sub>2/3</sub> receptors recombinantly. The compound also shows favorable pharmacokinetic properties, with a half-life (t <sub>1/2</sub> ) of 1.63 hours and a time to reach maximum concentration (T <sub>max</sub> ) of 30 minutes.
Targets(IC <sub>50</sub> )	Others,P2X Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.290 mL	11.450 mL	22.9001 mL
5 mM	0.458 mL	2.290 mL	4.580 mL
10 mM	0.229 mL	1.145 mL	2.290 mL
50 mM	0.0458 mL	0.229 mL	0.458 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.

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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