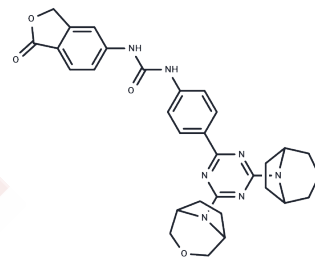


PT-88

Chemical Properties

CAS No. : 2803307-04-0
 Formula: C₃₀H₃₁N₇O₅
 Molecular Weight: 569.61
 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	PT-88, a highly selective mTOR (Mammalian target of rapamycin) inhibitor (IC ₅₀ = 1.2 nM), effectively targets both mTORC1 and mTORC2 complexes. These complexes represent the active isoforms of mTOR protein kinases, integral to cell growth, proliferation, and survival. The utility of PT-88 extends to researching mTOR's involvement in tumorigenesis and development, with significant applications in breast cancer treatments.
Targets(IC ₅₀)	mTOR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7556 mL	8.7779 mL	17.5559 mL
5 mM	0.3511 mL	1.7556 mL	3.5112 mL
10 mM	0.1756 mL	0.8778 mL	1.7556 mL
50 mM	0.0351 mL	0.1756 mL	0.3511 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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