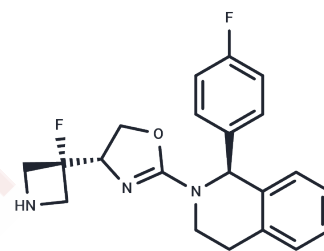


Progranulin modulator-1

Chemical Properties

CAS No. :	2641013-11-6
Formula:	C ₂₁ H ₂₁ F ₂ N ₃ O
Molecular Weight:	369.41
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	Progranulin Modulator-1 (Compound 60) is an orally active compound that promotes progranulin (PGRN) secretion. It enhances the ability of BV-2 cells to elevate PGRN levels, exhibits low cytotoxicity, and possesses an inhibitory effect on hERG. The EC ₅₀ for PGRN is 83 nM, and the IC ₅₀ for hERG is 3100 nM [1].
Targets(IC ₅₀)	Others,TNF
In vitro	Progranulin modulator-1 (Compound 60) exhibits an efflux ratio (ER) value of less than 2, indicating it is not a substrate of MDR, and demonstrates high binding affinity to brain tissue along with exceptional metabolic stability [1].
In vivo	Progranulin modulator-1 (Compound 60) (i.v.: 1 mg/kg, p.o.: 10 mg/kg) demonstrates a favorable pharmacokinetic profile in mice, with high bioavailability and a long half-life. It achieves an oral bioavailability of up to 99% and displays a K _{puu} greater than 1, indicating significant brain accumulation within 8 hours post-administration, allowing for regulatory activity at relatively low dosages of Progranulin modulator-1 [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.707 mL	13.5351 mL	27.0702 mL
5 mM	0.5414 mL	2.707 mL	5.414 mL
10 mM	0.2707 mL	1.3535 mL	2.707 mL
50 mM	0.0541 mL	0.2707 mL	0.5414 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

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481