

ASN04885796

Chemical Properties

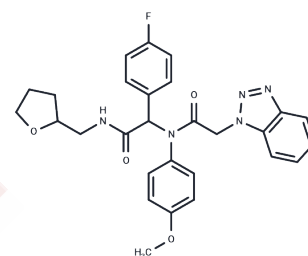
CAS No. : 1032892-26-4

Formula: C₂₈H₂₈FN₅O₄

Molecular Weight: 517.55

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	ASN04885796 (compound IV) is a neuroprotective, specific GPR17 agonist with an EC ₅₀ =2.27 nM for GPR17-mediated GTPγS binding and can be used to study neurodegenerative diseases such as cerebral ischemia and demyelinating diseases.
Targets(IC ₅₀)	Others, GPCR
In vitro	ASN04885796 (compound IV) is a potent GPR17 agonist, exhibiting an EC ₅₀ of 2.27 nM in assays measuring GTPγS binding stimulated by GPR17. ASN04885796 possesses neuroprotective effects and serves as a valuable tool for studying neurological disorders [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (154.57 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (6.38 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9322 mL	9.6609 mL	19.3218 mL
5 mM	0.3864 mL	1.9322 mL	3.8644 mL
10 mM	0.1932 mL	0.9661 mL	1.9322 mL
50 mM	0.0386 mL	0.1932 mL	0.3864 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.

Reference

Abbracchio, et al. Gpr17-modulating compounds, diagnostic and therapeutic uses thereof. 2014, US20140148472

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