

TFGF-18

## Chemical Properties

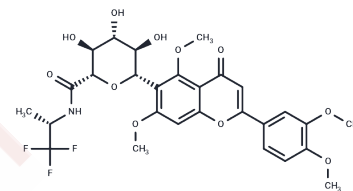
CAS No. : 2222662-20-4

Formula: C<sub>28</sub>H<sub>30</sub>F<sub>3</sub>N<sub>2</sub>O<sub>11</sub>

Molecular Weight: 613.53

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	TFGF-18 is a GSK-3β inhibitor with an IC <sub>50</sub> of 0.59 μM. It suppresses microglial activation and the release of pro-inflammatory mediators induced by LPS by inhibiting GSK-3β and downstream p65/NF-κB signaling. TFGF-18 also prevents neuronal apoptosis and oxidative stress, reduces the expression of Bax, caspase-3, and cleaved-caspase-3, while increasing Bcl-2 expression. It offers neuroprotection by inhibiting neuroinflammation and alleviating cognitive impairment.
Targets(IC <sub>50</sub> )	Apoptosis, Bcl-2 Family, Reactive Oxygen Species, Caspase, GSK-3

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6299 mL	8.1496 mL	16.2991 mL
5 mM	0.326 mL	1.6299 mL	3.2598 mL
10 mM	0.163 mL	0.815 mL	1.6299 mL
50 mM	0.0326 mL	0.163 mL	0.326 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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