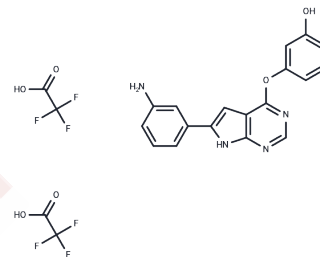


## TWS-119 TFA

## Chemical Properties

CAS No. :	1507095-58-0
Formula:	C <sub>22</sub> H <sub>16</sub> F <sub>6</sub> N <sub>4</sub> O <sub>6</sub>
Molecular Weight:	546.38
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	TWS-119 TFA is a potent GSK-3 $\beta$ inhibitor and Wnt/ $\beta$ -catenin activator. TWS-119 TFA induces neuronal differentiation, enhances T-cell antitumor activity, and protects the BBB in stroke models.
Targets(IC50)	GSK-3, Wnt/beta-catenin
In vitro	TWS-119 TFA activated mTOR, upregulated Bcl-2, and inhibited Caspase-3 in $\gamma$ DT cells (<4 $\mu$ M). Increased Granzyme B (0.5-2 $\mu$ M) to boost cytolytic activity[2].
In vivo	In rtPA-treated MCAO rats, i.p. injection TWS-119 TFA (30 mg/kg) activated Wnt/ $\beta$ -Catenin signaling, reduced edema, and lowered BBB permeability[1].

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble) DMSO: 40 mg/mL (73.21 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8302 mL	9.1511 mL	18.3023 mL
5 mM	0.366 mL	1.8302 mL	3.6605 mL
10 mM	0.183 mL	0.9151 mL	1.8302 mL
50 mM	0.0366 mL	0.183 mL	0.366 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

Wang W, et al. GSK-3 $\beta$  inhibitor TWS119 attenuates rtPA-induced hemorrhagic transformation and activates the Wnt/ $\beta$ -catenin signaling pathway after acute ischemic stroke in rats. Mol Neurobiol. 2016 Dec;53(10):7028-7036. Epub 2015 Dec 15.

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