

## Sulfonadyn-47

## Chemical Properties

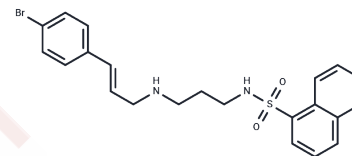
CAS No. :

Formula: C<sub>22</sub>H<sub>23</sub>BrN<sub>2</sub>O<sub>2</sub>S

Molecular Weight: 459.40

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	Sulfonadyn-47 is a dynamin inhibitor that effectively inhibits dynamin GTPase activity with an IC <sub>50</sub> of 3.5 μM in cell-free assays. Additionally, it disrupts clathrin-mediated endocytosis in U2OS cells (IC <sub>50</sub> = 27.3 μM) and impedes the depolarization-stimulated uptake of the synaptic vesicle endocytosis (SVE) marker FM4-64 in isolated rat brain synaptosomes (IC <sub>50</sub> = 12.3 μM). Significantly, in vivo administration of sulfonadyn-47 at doses of 30 and 60 mg/kg demonstrates anticonvulsant properties in the 6 Hz corneal kindling mouse model of seizures.
Targets(IC <sub>50</sub> )	Others

## Solubility Information

Solubility	DMF: 10 mg/mL (21.77 mM),Sonication is recommended. DMSO: 10 mg/mL (21.77 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	2.1768 mL	10.8838 mL	21.7675 mL
5 mM	0.4354 mL	2.1768 mL	4.3535 mL
10 mM	0.2177 mL	1.0884 mL	2.1768 mL
50 mM	0.0435 mL	0.2177 mL	0.4354 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

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