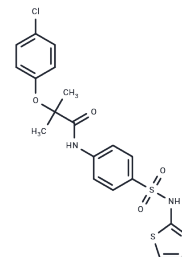


## Sodium Channel inhibitor 4

## Chemical Properties

|                   |  |
|-------------------|--|
| CAS No. :         | 587843-16-1  |
| Formula:          | C <sub>19</sub> H <sub>18</sub> ClN <sub>3</sub> O <sub>4</sub> S <sub>2</sub>   |
| Molecular Weight: | 451.95   |
| Storage:          | Keep away from direct sunlight<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><i>Actual storage temperature shall be subject to the COA.</i> |



## Biological Description

|                            |  |
|----------------------------|--|
| Description                | Sodium Channel inhibitor 4 is a potent and selective NaV1.7 inhibitor (IC <sub>50</sub> = 33 nM). It blocks action potential conduction in sensory neurons, exhibiting significant analgesic activity for neuropathic pain research. |
| Targets(IC <sub>50</sub> ) | Sodium Channel   |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 80 mg/mL (177.01 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.2126 mL | 11.0632 mL | 22.1263 mL |
| 5 mM  | 0.4425 mL | 2.2126 mL  | 4.4253 mL  |
| 10 mM | 0.2213 mL | 1.1063 mL  | 2.2126 mL  |
| 50 mM | 0.0443 mL | 0.2213 mL  | 0.4425 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

Do JA, et al. Collision-induced dissociation pathways of H1-antihistamines by electrospray ionization quadrupole time-of-flight mass spectrometry. Arch Pharm Res. 2017 Jun;40(6):736-745.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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