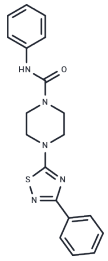
# Data Sheet (Cat.No.T2684)

TargetMol

JNJ-1661010

## Chemical Properties



CAS No. : 681136-29-8

Formula: C19H19N5OS

Molecular Weight: 365.45

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 | JNJ-1661010 (Takeda-25) is an effective and specific FAAH inhibitor (IC50: 10/ 12 nM for rat/human), shows >100-fold selectivity for FAAH-1 than FAAH-2. |
| Targets(IC50) | FAAH |
| In vitro | Preincubation of JNJ-1661010 with fatty acid amide hydrolase showed a slow reversible interaction between JNJ-1661010 and the active site, which was catalyzed by high temperature. In the hydrophobic channel, JNJ-1661010 could dock with phenylthiadiazole, and in the hydrophilic pocket of fatty acid amide hydrolase, it docked with phenylurea. |
| In vivo | Preincubation of JNJ-1661010 with fatty acid amide hydrolase showed a slow reversible interaction between JNJ-1661010 and the active site, which was catalyzed by high temperature. In the hydrophobic channel, JNJ-1661010 could dock with phenylthiadiazole, and in the hydrophilic pocket of fatty acid amide hydrolase, it docked with phenylurea. |

## Solubility Information

| | |
|---|---|
| Solubility | Ethanol: 3.7 mg/mL (10.12 mM),Sonication is recommended.<br>DMSO: 36.6 mg/mL (100.15 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.7364 mL | 13.6818 mL | 27.3635 mL |
| 5 mM | 0.5473 mL | 2.7364 mL | 5.4727 mL |
| 10 mM | 0.2736 mL | 1.3682 mL | 2.7364 mL |
| 50 mM | 0.0547 mL | 0.2736 mL | 0.5473 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

Karbarz MJ, et al. Anesth Analg, 2009, 108(1), 316-329.
Keith JM, et al. Bioorg Med Chem Lett, 2008, 18(17), 4838-4843.
Palumbo-Zerr K, et al. Ann Rheum Dis, 2012 Aug 22.