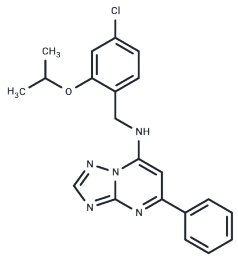
# Data Sheet (Cat.No.T8407)

AF64394

## Chemical Properties



CAS No. : 1637300-25-4

Formula: C21H20ClN5O

Molecular Weight: 393.87

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 | AF64394 is a selective inverse agonist of GPR3(pIC50 : 7.3) |
| Targets(IC50) | Others,GPCR,Orphan Receptor |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 125 mg/mL (317.36 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.16 mM),Sonication is recommended.<br>*Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.5389 mL | 12.6945 mL | 25.3891 mL |
| 5 mM | 0.5078 mL | 2.5389 mL | 5.0778 mL |
| 10 mM | 0.2539 mL | 1.2695 mL | 2.5389 mL |
| 50 mM | 0.0508 mL | 0.2539 mL | 0.5078 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

Jensen T, et al. The identification of GPR3 inverse agonist AF64394; the first small molecule inhibitor of GPR3 receptor function. Bioorg Med Chem Lett. 2014 Nov 15;24(22):5195-8.



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