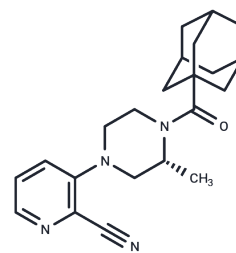


VU 0469650

Chemical Properties

CAS No. : 1443748-47-7
 Formula: C₂₂H₂₈N₄O
 Molecular Weight: 364.48
 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 | VU 0469650 is a potent and selective negative allosteric modulator of mGluR1 (IC ₅₀ = 99 nM). |
| Targets(IC ₅₀) | GluR |
| In vivo | VU 0469650 (10 mg/kg; I.P.; once; male Sprague-Dawley rats) shows an excellent selectivity profile and good exposure in both plasma and brain samples.[1] VU 0469650 (0.2 mg/kg; I.V.; once; male Sprague-Dawley rats) exhibits moderate to high clearance, a moderate volume of distribution, and a half-life of approximately 1 hour.[1] |

Solubility Information

| | |
|------------|--|
| Solubility | Ethanol: 45 mg/mL (123.46 mM), Sonication is recommended. DMSO: 90 mg/mL (246.93 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.7436 mL | 13.7182 mL | 27.4363 mL |
| 5 mM | 0.5487 mL | 2.7436 mL | 5.4873 mL |
| 10 mM | 0.2744 mL | 1.3718 mL | 2.7436 mL |
| 50 mM | 0.0549 mL | 0.2744 mL | 0.5487 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

Lovell KM, et al. N-Acyl-N'-arylpiperazines as negative allosteric modulators of mGlu1: identification of VU0469650, a potent and selective tool compound with CNS exposure in rats. *Bioorg Med Chem Lett.* 2013;23(13): 3713-3718.

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