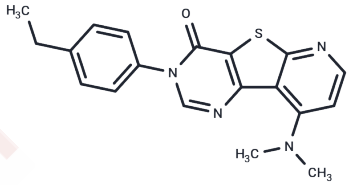
# Data Sheet (Cat.No.T26486)

TargetMol

A-794282

## Chemical Properties



CAS No. : 869802-44-8

Formula: C19H18N4OS

Molecular Weight: 350.44

Storage: Store at low temperature
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 | A-794282 is a selective and potent mGlu1 receptor antagonist with analgesic activity and may be useful in the study of neurologic disorders. |
| Targets(IC50) | GluR |
| In vivo | **METHODS**: In this study, the effects of A-794282, a potent and selective mGlu1 receptor antagonist (ip) were evaluated in a rat skin incision-induced postoperative pain model. Postoperative pain was examined 2 h after surgery, using the difference in weight bearing between the injured and uninjured paws as a measure of spontaneous pain. **RESULTS**: In this model, A-794282 significantly attenuated spontaneous postoperative pain behaviors induced by A-794282, with an ED50 of 50 μmol/kg, respectively. [2] |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.8536 mL | 14.2678 mL | 28.5356 mL |
| 5 mM | 0.5707 mL | 2.8536 mL | 5.7071 mL |
| 10 mM | 0.2854 mL | 1.4268 mL | 2.8536 mL |
| 50 mM | 0.0571 mL | 0.2854 mL | 0.5707 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

Yang YL,et al. [Research progress of selective mGluR1 antagonists]. Yao Xue Xue Bao. 2011 Oct;46(10):1167-72. Review. Chinese.

Zhu CZ,et al. Analgesic activity of metabotropic glutamate receptor 1 antagonists on spontaneous post-operative pain in rats. Eur J Pharmacol. 2008 Feb 12;580(3):314-21.

Zheng GZ,et al. Structure-activity relationship of triazafluorenone derivatives as potent and selective mGluR1 antagonists. J Med Chem. 2005 Nov 17;48(23):7374-88.



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