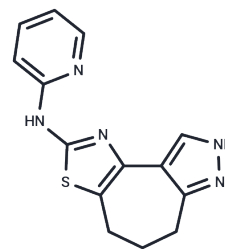


TC-N 22A

## Chemical Properties

CAS No. : 1314140-00-5  
 Formula: C<sub>14</sub>H<sub>13</sub>N<sub>5</sub>S  
 Molecular Weight: 283.35  
 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	TC-N 22A is a strong, selective, oral active mGlu4 forward allosteric regulator (PAM) that can cross the blood-brain barrier. EC <sub>50</sub> expression of TC-N 22A in BHK cells expressing human mGlu4 was 9 nM. TC-N 22A showed very low activity against mGlu 1, 2, 3, 5, and 7 receptors in excitation and forward allosteric models (EC <sub>50</sub> >10 μM). TC-N 22A can be used in the study of central nervous system diseases.
Targets(IC <sub>50</sub> )	GluR

## Solubility Information

Solubility DMSO: 50 mg/mL (176.46 mM), Sonication is recommended.  
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5292 mL	17.646 mL	35.292 mL
5 mM	0.7058 mL	3.5292 mL	7.0584 mL
10 mM	0.3529 mL	1.7646 mL	3.5292 mL
50 mM	0.0706 mL	0.3529 mL	0.7058 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

Sang-Phyo Hong, et al. Tricyclic thiazolopyrazole derivatives as metabotropic glutamate receptor 4 positive allosteric modulators. J Med Chem. 2011 Jul 28;54(14):5070-81.

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