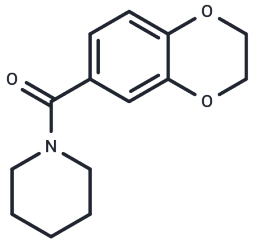
# Data Sheet (Cat.No.T7580)

TargetMol

CX546

## Chemical Properties



CAS No. : 215923-54-9

Formula: C14H17NO3

Molecular Weight: 247.29

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 | CX546 is an AMPA receptor modulator. CX546 enhances cognitive function in rats. It has also been proposed as a treatment for schizophrenia. |
| Targets(IC50) | Autophagy,iGluR |

## Solubility Information

| | |
|---|---|
| Solubility | Ethanol: 100 mg/mL (404.38 mM),Sonication is recommended.<br>DMSO: 45 mg/mL (181.97 mM),Sonication is recommended.<br>H2O: 2 mg/mL (8.09 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: 2 mg/mL (8.09 mM),Sonication is recommended.<br>10% DMSO+90% Saline: 10 mg/mL (40.44 mM),Solution.<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 | 4.0438 mL | 20.2192 mL | 40.4384 mL |
| 5 mM | 0.8088 mL | 4.0438 mL | 8.0877 mL |
| 10 mM | 0.4044 mL | 2.0219 mL | 4.0438 mL |
| 50 mM | 0.0809 mL | 0.4044 mL | 0.8088 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

Nagarajan N , Quast C , Boxall A R , et al. Mechanism and impact of allosteric AMPA receptor modulation by the AmpakineTM CX546[J]. Neuropharmacology, 2001, 41(6):0-663.

Pellerin L , Magistretti P J . Ampakine CX546 bolsters energetic response of astrocytes: A novel target for cognitive-enhancing drugs acting as AMPA receptor modulators[J]. Journal of Cerebral Blood Flow & Metabolism, 2005, 92(3): S70-S70.



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