

YM928

## Chemical Properties

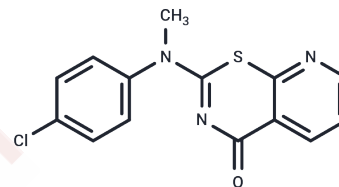
CAS No. : 190842-36-5

Formula: C<sub>14</sub>H<sub>10</sub>ClN<sub>3</sub>O<sub>2</sub>S

Molecular Weight: 303.77

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	YM928 is an orally active antagonist of the AMPA receptor.
Targets(IC50)	Others, iGluR

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.292 mL	16.4598 mL	32.9196 mL
5 mM	0.6584 mL	3.292 mL	6.5839 mL
10 mM	0.3292 mL	1.646 mL	3.292 mL
50 mM	0.0658 mL	0.3292 mL	0.6584 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

Inami H, Shishikura J, Yasunaga T, Ohno K, Yamashita H, Kato K, Sakamoto S. Synthesis, structure-activity relationships, and anticonvulsant activities of 2-amino-4H-pyrido[3,2-e][1,3]thiazin-4-one derivatives as orally active AMPA receptor antagonists. *Bioorg Med Chem*. 2015 Apr 15;23(8):1788-99. doi: 10.1016/j.bmc.2015.02.033. Epub 2015 Feb 25. PubMed PMID: 25792143.

Kato K, Noguchi K, Aoki T, Soeishi Y, Kamimura H. Simultaneous determination of YM928, a novel noncompetitive AMPA receptor antagonist, and its demethylated metabolite in rat, dog and monkey plasma by high-performance liquid chromatography with ultraviolet detection. *Biomed Chromatogr*. 2006 Dec;20(12):1328-35. PubMed PMID: 16977590.

Yamashita H, Ohno K, Amada Y, Inami H, Shishikura J, Sakamoto S, Okada M, Yamaguchi T. Effect of YM928, a novel AMPA receptor antagonist, on seizures in EL mice and kainate-induced seizures in rats. *Naunyn Schmiedebergs Arch Pharmacol*. 2004 Aug;370(2):99-105. Epub 2004 Jul 31. PubMed PMID: 15322731.

Yamashita H, Ohno K, Inami H, Shishikura J, Sakamoto S, Okada M, Yamaguchi T. Suppression of fully kindled seizure and retardation of kindling acquisition by YM928 in the rat kindling model of epilepsy. *Eur J Pharmacol*. 2004 Jun 28;494(2-3):147-54. PubMed PMID: 15212968.

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