

TCS 46b

Chemical Properties

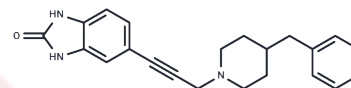
CAS No. : 302799-86-6

Formula: C₂₂H₂₃N₃O

Molecular Weight: 345.44

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 | TCS 46b is a NR1A/NR2B NMDA receptor antagonist with oral activity. |
| Targets(IC50) | NMDAR,iGluR |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 55 mg/mL (159.22 mM),Sonication is recommended. Ethanol: < 34.54 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.8949 mL | 14.4743 mL | 28.9486 mL |
| 5 mM | 0.579 mL | 2.8949 mL | 5.7897 mL |
| 10 mM | 0.2895 mL | 1.4474 mL | 2.8949 mL |
| 50 mM | 0.0579 mL | 0.2895 mL | 0.579 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

Nikam SS, Meltzer LT. NR2B selective NMDA receptor antagonists. *Curr Pharm Des.* 2002;8(10):845-55. doi: 10.2174/1381612024607072. PMID: 11945135.

Wright JL, Gregory TF, Kesten SR, Boxer PA, Serpa KA, Meltzer LT, Wise LD, Espitia SA, Konkoy CS, Whittemore ER, Woodward RM. Subtype-selective N-methyl-D-aspartate receptor antagonists: synthesis and biological evaluation of 1-(heteroarylalkynyl)-4-benzylpiperidines. *J Med Chem.* 2000 Sep 7;43(18):3408-19. doi: 10.1021/jm000023o. PMID: 10978188.

Dischino D D , Gribkoff V K , Hewawasam P , et al. Synthesis of 3H and 14C labeled (S)-3-(5-chloro-2-methoxyphenyl)-1,3-dihydro-3-fluoro-6-(trifluoromethyl)-2H-indol-2-one, maxipost. An agent for post-stroke neuroprotection[J]. *Journal of Labelled Compounds and Radiopharmaceuticals*, 2003, 46(2):139-149.

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