

RS-0406

Chemical Properties

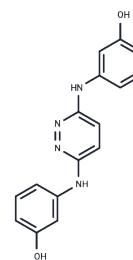
CAS No. : 530112-00-6

Formula: C₁₆H₁₄N₄O₂

Molecular Weight: 294.31

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	RS-0406 is a new type of β -flakes blocker, which can reverse amyloid β -induced cytotoxicity and long-term enhanced damage in vitro, and inhibit amyloid-oligomer-induced behavior deterioration in vivo.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3978 mL	16.9889 mL	33.9778 mL
5 mM	0.6796 mL	3.3978 mL	6.7956 mL
10 mM	0.3398 mL	1.6989 mL	3.3978 mL
50 mM	0.068 mL	0.3398 mL	0.6796 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

Kalhor HR, Jabbari MP. Inhibition Mechanisms of a Pyridazine-Based Amyloid Inhibitor: As a β -Sheet Destabilizer and a Helix Bridge Maker. *J Phys Chem B*. 2017 Aug 17;121(32):7633-7645. doi: 10.1021/acs.jpcc.7b05189. Epub 2017 Aug 3. PubMed PMID: 28771005.

Scopes DI, O'Hare E, Jeggo R, Whyment AD, Spanswick D, Kim EM, Gannon J, Amijee H, Treherne JM. A β oligomer toxicity inhibitor protects memory in models of synaptic toxicity. *Br J Pharmacol*. 2012 Sep;167(2):383-92. doi: 10.1111/j.1476-5381.2012.01973.x. PubMed PMID: 22913627; PubMed Central PMCID: PMC3481045.

O'Hare E, Scopes DI, Treherne JM, Norwood K, Spanswick D, Kim EM. RS-0406 arrests amyloid-beta oligomer-induced behavioural deterioration in vivo. *Behav Brain Res*. 2010 Jun 26;210(1):32-7. doi: 10.1016/j.bbr.2010.01.044. Epub 2010 Feb 5. PubMed PMID: 20138088.

Walsh DM, Townsend M, Podlisny MB, Shankar GM, Fadeeva JV, El Agnaf O, Hartley DM, Selkoe DJ. Certain inhibitors of synthetic amyloid beta-peptide (A β) fibrillogenesis block oligomerization of natural A β and thereby rescue long-term potentiation. *J Neurosci*. 2005 Mar 9;25(10):2455-62. Erratum in: *J Neurosci*. 2005 May 4;25(18):4658. PubMed PMID: 15758153.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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