

Bavisant

Chemical Properties

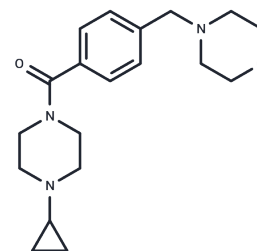
CAS No. : 929622-08-2

Formula: C19H27N3O2

Molecular Weight: 329.44

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

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|---------------|--|
| Description | Bavisant (JNJ-31001074) is a selective and orally active Human H3 receptor antagonist. Bavisant can be used in research on mechanisms of action, involving wakefulness and cognition and the treatment for ADHD. |
| Targets(IC50) | Histamine Receptor |
| In vivo | Mean change from baseline in the total ADHD-RS-IV score at day 42 (primary efficacy endpoint) was -8.8 in the placebo group versus -9.3, -11.2, and -12.2 in the Bavisant 1 mg/day, 3 mg/day, and 10 mg/day groups, respectively; the change in the 10 mg/day group was not statistically superior to placebo, and hence statistical comparisons of the 1 mg/day and 3 mg/day groups with placebo based on a step-down closed testing procedure were not performed[1]. |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 13 mg/mL (39.46 mM),Sonication is recommended. (< 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 (6.07 mM),Sonication is recommended. <i>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.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 3.0355 mL | 15.1773 mL | 30.3545 mL |
| 5 mM | 0.6071 mL | 3.0355 mL | 6.0709 mL |
| 10 mM | 0.3035 mL | 1.5177 mL | 3.0355 mL |
| 50 mM | 0.0607 mL | 0.3035 mL | 0.6071 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

Weisler RH, Pandina GJ, Daly EJ. Randomized clinical study of a histamine H3 receptor antagonist for the treatment of adults with attention-deficit hyperactivity disorder. *CNS Drugs*. 2012 May 1;26(5):421-34.

Robert L, et al. Discovery and Characterization of 6-{4-[3-(R)-2-Methylpyrrolidin-1-yl]propoxy}phenyl}-2H-pyridazin-3-one (CEP-26401, Irdabisant): A Potent, Selective Histamine H3 Receptor Inverse Agonist. *J. Med. Chem.* 2011, 54, 4781-4792

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