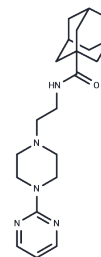


Adatanserin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 127266-56-2 |
| Formula: | C ₂₁ H ₃₁ N ₅ O |
| Molecular Weight: | 369.5 |
| 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 | Adatanserin (WY 50324) is a mixed 5-HT _{1A} receptor partial agonist and a 5-HT _{2A} and 5-HT _{2C} receptor antagonist with potential neuroprotective activity for the study of coke oven and depression. |
| Targets(IC ₅₀) | 5-HT Receptor |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.7064 mL | 13.5318 mL | 27.0636 mL |
| 5 mM | 0.5413 mL | 2.7064 mL | 5.4127 mL |
| 10 mM | 0.2706 mL | 1.3532 mL | 2.7064 mL |
| 50 mM | 0.0541 mL | 0.2706 mL | 0.5413 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

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Abou-Gharbia MA, et al. Synthesis and SAR of adatanserin: novel adamantyl aryl- and heteroarylpiperazines with dual serotonin 5-HT(1A) and 5-HT(2) activity as potential anxiolytic and antidepressant agents. *J Med Chem.* 1999 Dec 16;42(25):5077-94.

Evans CA, et al. Synthesis and biological evaluation of thioadatanserin and its dialkylated products as partial 5-HT_{1A} agonists and 5-HT_{2A} antagonists for potential use in depression and anxiety disorders. *Bioorg Med Chem Lett.* 2020 Aug 15;30(16):127358.

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