

Product Data Sheet

Product Name: AZD 2066 hydrate

Cat. No.: GC60614

Chemical Properties

Cas. No.

SMILES CN1C(C2=CC=NC=C2)=NN=C1O[C@@H](C3=NOC(C4=CC(Cl)=CC=C4)=C3)C.O.[1/4]

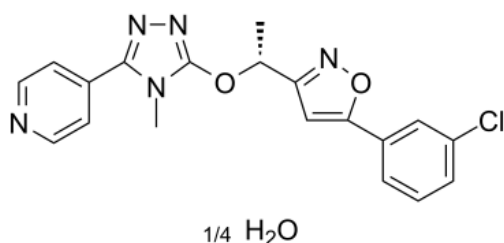
Formula $C_{19}H_{16}ClN_5O_2 \cdot 1/4 H_2O$ M.Wt 386.33

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

AZD 2066 hydrate is a selective, orally active and brain-penetrant antagonist of mGluR5. AZD 2066 hydrate has antinociception effects[1].

AZD 2066 (1-10 μM) inhibits Ca²⁺ response, with IC₅₀s of 27.2±9.1, 3.56±0.52, 96.2±17.8, and 380±78.0 nM in mGlu5/HEK cells and striatal, hippocampal, and cortical cultures respectively[2]. AZD 2066 (1-10 μM) inhibits the oscillatory Ca²⁺ response which induced by bath application of DHPG,

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and blocks either DHPG or Quis effects in mGlu5/HEK cells[2]. AZD 2066 (1-10 μ M) has less effective in striatal neurons[2].

AZD 2066 (0.03-30 mg/kg; p.o.) shows discriminative effects in rats[1]. Animal Model: Male Wistar rats (weighing 240-250 g)[1]

[1]. Swedberg MDB, et, al. AZD9272 and AZD2066: selective and highly central nervous system penetrant mGluR5 antagonists characterized by their discriminative effects. J Pharmacol Exp Ther. 2014 Aug; 350(2): 212-22. [2]. Jong YJ, et, al. Location and Cell-Type-Specific Bias of Metabotropic Glutamate Receptor, mGlu 5, Negative Allosteric Modulators. ACS Chem Neurosci. 2019 Nov 20; 10(11): 4558-4570.

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