

## AZD 2066 hydrate

## Chemical Properties

CAS No. :

Formula: C<sub>19</sub>H<sub>18</sub>ClN<sub>5</sub>O<sub>3</sub>

Molecular Weight: 386.33

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	AZD 2066 hydrate is a selective, orally active, brain-penetrant mGluR5 antagonist with antinociceptive effects [1].
Targets(IC50)	Others, Calcium Channel, GluR, Trk receptor
In vitro	AZD 2066, at concentrations ranging from 1-10 $\mu$ M, effectively inhibits the Ca <sup>2+</sup> response, demonstrating IC <sub>50</sub> values of 27.2 $\pm$ 9.1 nM in mGlu5/HEK cells, 3.56 $\pm$ 0.52 nM in striatal cultures, 96.2 $\pm$ 17.8 nM in hippocampal cultures, and 380 $\pm$ 78.0 nM in cortical cultures. Additionally, this compound suppresses the oscillatory Ca <sup>2+</sup> response induced by DHPG and blocks the effects of either DHPG or Quis in mGlu5/HEK cells. However, it is less effective in striatal neurons.
In vivo	AZD 2066 (0.03-30 mg/kg; p.o.) exhibits dose-dependent discriminative effects in 240-250g male Wistar rats, producing a complete and dose-proportional response specific to AZD9272 60 minutes post-administration, demonstrating its activity at various dosages [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5885 mL	12.9423 mL	25.8846 mL
5 mM	0.5177 mL	2.5885 mL	5.1769 mL
10 mM	0.2588 mL	1.2942 mL	2.5885 mL
50 mM	0.0518 mL	0.2588 mL	0.5177 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.

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