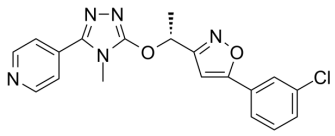
AZD 2066

Cat. No.:	HY-110255
CAS No.:	934282-55-0
Molecular Formula:	$C_{19}H_{16}ClN_5O_2$
Molecular Weight:	381.82
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	AZD 2066 is a selective, orally active and brain-penetrant antagonist of mGluR5. AZD 2066 has antinociception effects[1].
IC_{50} & Target	mGluR5
In Vitro	AZD 2066 (1-10 μM) inhibits Ca^{2+} response, with IC_{50}s 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 Ca^{2+} response which induced by bath application of DHPG, and blocks either DHPG or Quis effects in mGlu5/HEK cells[2]. AZD 2066 (1-10 μM) has less effective in striatal neurons[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	AZD 2066 (0.3-30 mg/kg; p.o.) shows discriminative effects in rats[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats (weighing 240-250 g)[1]
Dosage:	0.03, 0.1, 0.3, 1, 3, 10, 30 mg/kg
Administration:	P.o. (60 minutes after administration)
Result:	Caused full and dose-dependent AZD9272-appropriate responding.

CUSTOMER VALIDATION

- ACS Chem Neurosci. 2019 Nov 20;10(11):4558-4570.

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REFERENCES

[1]. Swedberg MD, 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 YJI, 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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