



AZD 9272

Catalog No: tcsc0033119

Availabl	e Sizes		
Size: 5mg			
Size: 10mg			
Size: 25mg			
Specifica	ations		
CAS No: 327056-26-8			
Formula: C ₁₄ H ₆ F ₂ N ₄ O			
Pathway: GPCR/G Protein			
Target: mGluR			
Purity / Grade: >98%			
Solubility: 10 mM in DMSO			
Observed Molect	cular Weight:		





Product Description

AZD 9272 is a brain penetrant mGluR5 antagonist.

IC50 & Target: mGluR5^[1]

In Vitro: AZD 9272 causes a concentration dependent decrease in the magnitude of the intracellular Ca2+ response to 1.5 μM of the mGluR group I selective agonist DHPG in both the human and the rat mGluR5 expressing cell lines. The maximal inhibition is 100%. The mean IC (±SD) value at the human mGluR5 is 7.6±1.1 nM (n=13) for AZD9272. The mean IC value at the rat mGluR5 is 2.6±0.3 nM (n=3) for AZD9272. In contrast, 10 μM of AZD9272 does not diminish the response to 10 μM ATP in the background GHEK cells. Increasing concentrations of AZD9272 causes a decrease in the potency and the maximal response of DHPG. AZD9272 completely reverses the glutamate-stimulated (EC , 80 μM) phosphatidyl inositol hydrolysis in human mGluR5-GHEK cells in a concentration-dependent manner, with IC of 26±3 nM (n=21)[1].

In Vivo: The clearance of AZD 9272 is low following a single intravenous dose at 3 μmol/kg and AZD 9272 is eliminated from plasma with terminal half-lives between 2 and 6 h. The terminal half-lives following oral dosing are similar to the half-lives following intravenous dosing. The volume of distribution at steady state is intermediate for AZD9272[1]. AZD9272 causes no cocaine-appropriate responding and causes a non-dose-dependent reduction in response rates at higher doses. AZD9272 at 2.84 mg/kg causes greater than 80% and typically more than 99% MTEP-appropriate responding up to 20 hours after dose, with a decline to approximately 20% at 24 hours after dose, yielding a t of 21.93 hours, and causes no systematic effects on response rates. The first time point at which AZD9272 causes >90% MTEP-appropriate responding is at 30 minutes after dose[2].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!