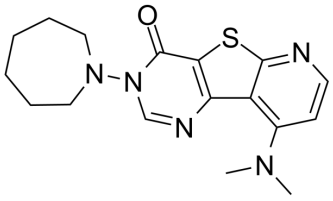
A-841720

Cat. No.:	HY-103550
CAS No.:	869802-58-4
Molecular Formula:	$C_{17}H_{21}N_5OS$
Molecular Weight:	343.45
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	A-841720 is a potent, non-competitive and selective mGlu1 receptor antagonist with an IC_{50} of 10 nM for human mGlu1 receptor. A-841720 displays 34-fold selectivity over mGlu5 (IC_{50} of 342 nM), and no significant activity at a range of other neurotransmitter receptors, ion channels, and transporters. A-841720 has the potential for chronic pain research[1][2].	
IC_{50} & Target	Human mGluR1 10 nM (IC_{50})	human mGluR5 342 nM (IC_{50})

REFERENCES

[1]. O El-Kouhen, et al. Blockade of mGluR1 receptor results in analgesia and disruption of motor and cognitive performances: effects of A-841720, a novel non-competitive mGluR1 receptor antagonist. Br J Pharmacol. 2006 Nov;149(6):761-74.

[2]. Lorenzo Morè, et al. Comparison of the mGluR1 antagonist A-841720 in rat models of pain and cognition. Behav Pharmacol. 2007 Jul;18(4):273-81.

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