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DATASHEET

LY 354740 hydrate

Product overview

Name	LY 354740 hydrate
Cat No	HB0397
Alternative names	Eglumetad
Biological action	Agonist
Purity	>95%
Description	Potent, selective group II receptor agonist

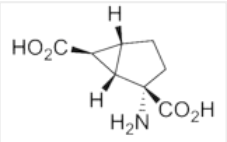
Biological Data

Biological description	Potent and selective group II receptor agonist (EC_{50} values are 5.1 and 24.3 nM for $mGlu_2$ and $mGlu_3$ receptors respectively). Displays little activity at $mGlu_{1a,\ 4,\ 5a\ and\ 7}$ receptors. Shows anxiolytic, anti-addictive and antipsychotic properties.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in NaOH(aq) (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	(1*S*,2*S*,5*R*,6*S*)-2-Aminobicyclo[3.1.0]hexane-2,6-dicarboxylicacid
Molecular Weight	203.19
Chemical structure	
Molecular Formula	$C_8H_{11}NO_4.H_2O$
CAS Number	176199-48-7
PubChem identifier	213056
SMILES	N[C@]1([C@@](O)=O)[C@@]2([H])[C@@]([C@@H]2[C@](O)=O)([H])CC1
InChi	InChI=1S/C8H11NO4/c9-8(7(12)13)2-1-3-4(5(3)8)6(10)11/h3-5H,1-2,9H2,(H,10,11)(H,12,13)/t3-,4-,5-,8-/m0/s1
InChiKey	VTAARTQTOOYTES-RGDLXGNYSA-N
MDL number	MFCD04113018

References

LY354740 is a potent and highly selective group II metabotropic glutamate receptor agonist in cells expressing human glutamate receptors.

Schoepp DD *et al* (1997) Neuropharmacology 36(1)

PubMedID 9144636

Anxiolytic and side-effect profile of LY354740: a potent, highly selective, orally active agonist for group II metabotropic glutamate receptors.

Helton DR *et al* (1998) J Pharmacol Exp Ther 284(2)
PubMedID 9454811

In vitro and in vivo evidence for a lack of interaction with dopamine D2 receptors by the metabotropic glutamate 2/3 receptor agonists 1S,2S,5R,6S-2-aminobicyclo[3.1.0]hexane-2,6-bicaroxylate monohydrate (LY354740) and (-)-2-oxa-4-aminobicyclo[3.1.0] Hexa

Fell MJ *et al* (2009) J Pharmacol Exp Ther 331(3)
PubMedID 19755662

Potential anti-anxiety, anti-addictive effects of LY 354740, a selective group II glutamate metabotropic receptors agonist in animal models.

Kłodzińska A *et al* (1999) Neuropharmacology 38(12)
PubMedID 10608278