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DATASHEET

CGP 54626 hydrochloride

Product overview

Name	CGP 54626 hydrochloride
Cat No	HB0959
Biological action	Antagonist
Purity	>98%
Description	Potent, selective $GABA_B$ receptor antagonist

Images

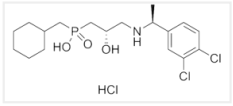
Biological Data

Biological description	Potent and selective $GABA_B$ receptor antagonist (IC_{50} = 4 nM).

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (50mM, gentle warming) or ethanol (10mM)
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	[*S*-(*R**,*R**)]-[3-[[1-(3,4-Dichlorophenyl)ethyl]amino]-2-hydroxypropyl](cyclohexylmethyl) phosphinic acid
Molecular Weight	444.76
Chemical structure	
Molecular Formula	$C_{18}H_{28}Cl_2NO_3P.HCl$
CAS Number	149184-21-4
PubChem identifier	197583
SMILES	OP(CC1CCCCC1)(C[C@@H](O)CN[C@@H](C)C2=CC(Cl)=C(Cl)C=C2)=O.Cl
Source	Synthetic
InChi	InChI=1S/C18H28Cl2NO3P.ClH/c1-13(15-7-8-17(19)18(20)9-15)21-10-16(22)12-25(23,24)11-14-5-3-2-4-6-14;/h7-9,13-14,16,21-22H,2-6,10-12H2,1H3,(H,23,24);1H/t13-,16-;/m0./s1

InChiKey	ZQCFHOVIXCJPLE-LINSIKMZSA-N
Appearance	White solid

References

Solubilization and characterization of GABAB receptor binding sites from porcine brain synaptic membranes.

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Binding characteristics of gamma-hydroxybutyric acid as a weak but selective GABAB receptor agonist.

Mathivet P *et al* (1997) Eur J Pharmacol 321(1)
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GABAB receptor-mediated tonic inhibition of noradrenergic A7 neurons in the rat.

Wu Y *et al* (2011) J Neurophysiol 105(6)
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The action of new potent GABAB receptor antagonists in the hemisected spinal cord preparation of the rat

Brugger et al (1993) Eur J Pharmacol. (1)
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GABA(B)-receptor subtypes assemble into functional heteromeric complexes

Kaupmann et al (1998) Nature. 683-7
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