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DATASHEET

CGP 55845 hydrochloride

Product overview

Name	CGP 55845 hydrochloride
Cat No	HB0960
Alternative names	CGP 55845, CGP-55845, CGP55845,
Biological action	Antagonist
Purity	>98%
Customer comments	*Works great! Switching to Hello Bio CGP 55845 from another supplier has saved us literally hundreds of dollars in the last year without sacrificing any quality at all! Indistinguishable in all regards except price. We love it!* **Verified customer, University of Toronto**
Description	Potent, selective $GABA_B$ receptor antagonist

Images

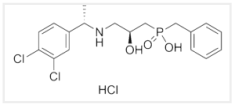
Biological Data

Biological description	CGP55845 hydrochloride is a potent and selective $GABA_B$ receptor antagonist (IC_{50} = 5 nM). It inhibits [3H]CGP 27492 binding (pK_i = 8.35). CGP55845 hydrochloride inhibits GABA and glutamate release and inhibits $GABA_B$ receptor responses to baclofen (IC_{50} = 130 nM in an isoproterenol assay). It enhances responses to hypoglycaemia and shows convulsive actions at high doses.

Solubility & Handling

Solubility overview	Soluble in DMSO (100mM, gentle warming)
Storage instructions	Room temperature
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	(2*S*)-3-[[(1*S*)-1-(3,4-Dichlorophenyl)ethyl]amino-2-hydroxypropyl](phenylmethyl)phosphinic acid hydrochloride
Molecular Weight	438.71
Chemical structure	
Molecular Formula	$C_{18}H_{22}Cl_2NO_3P.HCl$
CAS Number	149184-22-5
PubChem identifier	5311042
SMILES	C[C@@H](C1=CC(=C(C=C1)Cl)Cl)NC[C@@H](CP(=O)(CC2=CC=CC=C2)O)O
Source	Synthetic
InChi	InChI=1S/C18H22Cl2NO3P/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/h2-9,13,16,21-22H,10-12H2,1H3,(H,23,24)/t13-,16-/m0/s1
InChiKey	ZODSPDOOCZZEIM-BBRMVZONSA-N
Appearance	White solid

References

GABA and glutamate release affected by GABAB receptor antagonists with similar potency: no evidence for pharmacologically different presynaptic receptors.

Waldmeier PC *et al* (1994) Br J Pharmacol 113(4)
PubMedID 7889310

Functional characterization and expression of thalamic GABA(B) receptors in a rodent model of Parkinson's disease.

de Groote C *et al* (1999) Neuropharmacology 38(11)
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Neurotransmitter mechanisms mediating low-glucose signalling in cocultures and fresh tissue slices of rat carotid body.

Zhang M *et al* (2007) J Physiol 578(Pt 3)
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