**Product overview**

**Name**
CGP55845 hydrochloride

**Cat No**
HB0960

**Short description**
Potent, selective GABA\(_B\) receptor antagonist

**Biological description**
CGP55845 hydrochloride is a potent and selective GABA\(_B\) receptor antagonist (IC\(_{50}\) = 5 nM). It inhibits [3H]CGP 27492 binding (pKi = 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.

**Alternative names**
CGP 55845, CGP-55845

**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

**Properties**

**Chemical name**
(2S)-3-[(1S)-1-(3,4-Dichlorophenyl)ethyl]amino-2-hydroxypropyl][phenylmethyl]phosphinic acid hydrochloride

**Molecular Weight**
438.71

**Chemical structure**

![Chemical structure of CGP55845 hydrochloride]

**Molecular Formula**
C\(_{18}\)H\(_{22}\)Cl\(_2\)NO\(_3\)P.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/qh1-8,10-11,15-24H2

**InChiKey**
ZODSPDOOZZEiM-BBRMVZONSA-N

**Appearance**
White solid
Storing and Using Your Product

Storage instructions  Room temperature
Solubility overview  Soluble in DMSO (100mM, gentle warming)
Important  This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for CGP55845 hydrochloride

GABA and glutamate release affected by GABAB receptor antagonists with similar potency: no evidence for pharmacologically different presynaptic receptors.
PubMedID: 7889310

Functional characterization and expression of thalamic GABA(B) receptors in a rodent model of Parkinson's disease.
PubMedID: 10587084

Neurotransmitter mechanisms mediating low-glucose signalling in cocultures and fresh tissue slices of rat carotid body.
PubMedID: 17124268