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DATASHEET

BCTC

Product overview

Name	BCTC
Cat No	HB1190
Biological action	Antagonist
Purity	>98%
Description	Potent, selective TRPV1 channel antagonist

Images



Biological Data

Biological description	Potent and selective TRPV1 channel antagonist (IC_{50} values are 6.0 and 35 nM for acid- and capsaicin-induced TRPV1 channels respectively). Also potent TRPM8 channel antagonist ($IC_{50} = 143$ nM). Blood brain barrier permeable. Displays analgesic properties.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM) and in ethanol (40mM)
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	4-(3-Chloro-2-pyridinyl)-N-[4-(1,1-dimethylethyl)phenyl]-1-piperazinecarboxamide
Molecular Weight	372.89
Chemical structure	
Molecular Formula	$C_{20}H_{25}ClN_4O$
CAS Number	393514-24-4
PubChem identifier	9929425

SMILES	<chem>CC(C)(C)C1=CC=C(C=C1)NC(=O)N2CCN(CC2)C3=C(C=CC=N3)Cl</chem>
InChi	InChI=1S/C20H25ClN4O/c1-20(2,3)15-6-8-16(9-7-15)23-19(26)25-13-11-24(12-14-25)18-17(21)5-4-10-22-18/h4-10H,11-14H2,1-3H3,(H,23,26)
InChiKey	ROGUAPYLUC HQGK-UHFFFAOYSA-N
MDL number	MFCD08690556

References

Use and limitations of three TRPV-1 receptor antagonists on smooth muscles of animals and man: a vote for BCTC.

Benko R *et al* (2012) Eur J Pharmacol 674(1)

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N-(4-tertiarybutylphenyl)-4-(3-chloropyridin-2-yl)tetrahydropyrazine -1(2H)-carbox-amide (BCTC), a novel, orally effective vanilloid receptor 1 antagonist with analgesic properties: I. in vitro characterization and pharmacokinetic properties.

Valenzano KJ *et al* (2003) J Pharmacol Exp Ther 306(1)

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N-(4-Tertiarybutylphenyl)-4-(3-cholorpyridin-2-yl)tetrahydropyrazine -1(2H)-carbox-amide (BCTC), a novel, orally effective vanilloid receptor 1 antagonist with analgesic properties: II. in vivo characterization in rat models of inflammatory and neuropath

Pomonis JD *et al* (2003) J Pharmacol Exp Ther 306(1)

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Conservation of functional and pharmacological properties in the distantly related temperature sensors TRVP1 and TRPM8.

Weil A *et al* (2005) Mol Pharmacol 68(2)

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