Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

KC 12291 hydrochloride

Product overview

Name	KC 12291 hydrochloride
Cat No	HB1019
Biological action	Blocker
Purity	>97%
Description	Atypical voltage-gated sodium channel blocker

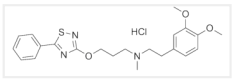
Biological Data

Biological description	Atypical voltage-gated sodium channel blocker. Reduces sustained Na^+ channel current and inhibits peak current. Inhibits veratridine- and LPC-induced sustained sodium current contractures (IC_{50} values are 0.55 and 0.79 µM respectively). Shows cardioprotective, antiischemic and bradycardic actions.

Solubility & Handling

Storage instructions	+4°C (desiccate)
Solubility overview	Soluble in water (25mM) or DMSO (50mM)
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	3,4-Dimethoxy-*N*-methyl-*N*-[3-[(5-phenyl-1,2,4-thiadiazol-3-yl)oxy]propyl]benzeneethanamine hydrochloride
Molecular Weight	449.99
Chemical structure	
Molecular Formula	$C_{22}H_{27}N_3O_3S.HCl$
CAS Number	181936-98-1
PubChem identifier	22902387
SMILES	CN(CCCOC2=NSC(C3=CC=CC=C3)=N2)CCC1=CC=C(OC)C(OC)=C1.Cl
InChiKey	KIJPRQYBNQKUAU-UHFFFAOYSA-N

References

KC 12291: an atypical sodium channel blocker with myocardial antiischemic properties.

John GW *et al* (2004) Cardiovasc Drug Rev 22(1)
PubMedID 14978516

Pharmacological characterisation of sodium channels in sinoatrial node pacemaking in the rat heart.

Létienne R *et al* (2006) Eur J Pharmacol 530(3)
PubMedID 16368090

Anti-ischemic compound KC 12291 prevents diastolic contracture in isolated atria by blockade of voltage-gated sodium channels.

Tamareille S *et al* (2002) J Cardiovasc Pharmacol 40(3)
PubMedID 12198320