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

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

customercare-usa@m2stage.hellobio.com

DATASHEET

PNU 37883 hydrochloride

Product overview

Name	PNU 37883 hydrochloride
Cat No	HB1105
Biological action	Antagonist
Purity	>99%
Description	Selective vascular K_{ATP} channel antagonist

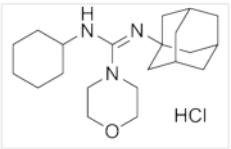
Biological Data

Biological description	Selective vascular K_{ATP} channel antagonist (IC_{50} values are 15 and 6 µM for SUR2B/ K_{ir}6.2 and SUR2B/ K_{ir}6.1 channels respectively). Also K_{ir}6.2δ26 channel inhibitor (IC_{50} = 5.0 µM). Displays no activity at cardiac, pancreatic or skeletal k_{ATP} channels. Displays diuretic properties.

Solubility & Handling

Storage instructions	room temperature (desiccate)
Solubility overview	Soluble in DMSO (25mM) or ethanol (100mM)
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	*N*-Cyclohexyl-*N'*-tricyclo[3.3.1.13,7]dec-1-yl-4-morpholinecarboximidamide hydrochloride
Molecular Weight	381.98
Chemical structure	
Molecular Formula	$C_{21}H_{35}N_3O.HCl$
CAS Number	57568-80-6
PubChem identifier	64392
SMILES	C1(CC3C2)CC2(/N=C(N5CCOCC5)/NC4CCCCC4)CC(C3)C1.Cl
InChiKey	FZALCKUJYZCDOX-UHFFFAOYSA-N

References

Pharmacological Profile of U-37883A, a Channel Blocker of Smooth Muscle-Type ATP-Sensitive K Channels.

Teramoto N (2006) Cardiovasc Drug Rev 24(1)
PubMedID 16939631

Different molecular sites of action for the KATP channel inhibitors, PNU-99963 and PNU-37883A.

Cui Y *et al* (2003) Br J Pharmacol 139(1)

PubMedID 12746230

Molecular analysis of the subtype-selective inhibition of cloned KATP channels by PNU-37883A.

Kovalev H *et al* (2004) Br J Pharmacol 141(5)
PubMedID 14757705