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## DATASHEET

### PNU 37883 hydrochloride

### Product overview

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

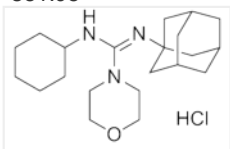
### Biological Data

<b>Biological description</b>	Selective vascular $K_{ATP}$ channel antagonist ( $IC_{50}$ values are 15 and 6 $\mu$ M for SUR2B/ $K_{ir}6.2$ and SUR2B/ $K_{ir}6.1$ channels respectively). Also $K_{ir}6.2\delta 26$ channel inhibitor ( $IC_{50} = 5.0 \mu$ M). Displays no activity at cardiac, pancreatic or skeletal $K_{ATP}$ channels. Displays diuretic properties.
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### Solubility & Handling

<b>Storage instructions</b>	room temperature (desiccate)
<b>Solubility overview</b>	Soluble in DMSO (25mM) or ethanol (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	<i>N</i> -Cyclohexyl- <i>N</i> -tricyclo[3.3.1.1 <sup>3,7</sup> ]dec-1-yl-4-morpholinecarboximidamide hydrochloride
<b>Molecular Weight</b>	381.98
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{21}H_{35}N_3O \cdot HCl$
<b>CAS Number</b>	57568-80-6
<b>PubChem identifier</b>	64392
<b>SMILES</b>	<chem>C1(CC3C2)CC2(/N=C(N5CCOCC5)/N4CCCCC4)CC(C3)C1.Cl</chem>
<b>InChiKey</b>	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 $K_{ATP}$ 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

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