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DATASHEET

AMTB hydrochloride

Product overview

Name	AMTB hydrochloride
Cat No	HB1167
Biological action	Blocker
Purity	>99%
Description	TRPM8 channel blocker

Images



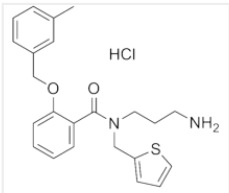
Biological Data

Biological description	TRPM8 channel blocker ($pIC_{50} = 6.23$). Exhibits selectivity for TRPM8 channels over TRPV1 and TRPV4 channels. Displays antiproliferative properties.
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Solubility & Handling

Storage instructions	Room temperature (desiccate)
Solubility overview	Soluble in water (100mM) and in DMSO (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	<i>N</i> -(3-Aminopropyl)-2-[(3-methylphenyl)methoxy]- <i>N</i> -(2-thienylmethyl)benzamide hydrochloride
Molecular Weight	430.99
Chemical structure	 The chemical structure shows a benzamide core. The amide nitrogen is attached to a 3-aminopropyl group. The amide carbonyl is attached to a benzene ring. This benzene ring has a (3-methylphenyl)methoxy group at the 2-position and a (2-thienylmethyl) group at the 1-position. The structure is shown as a hydrochloride salt (HCl).
Molecular Formula	$C_{23}H_{26}N_2O_2S \cdot HCl$
CAS Number	926023-82-7

Chemical name	<i>N</i> -(3-Aminopropyl)-2-[(3-methylphenyl)methoxy]- <i>N</i> -(2-thienylmethyl)benzamide hydrochloride
PubChem identifier	16095383
SMILES	<chem>CC1=CC(=CC=C1)COC2=CC=CC=C2C(=O)N(CCCN)CC3=CC=CS3.Cl</chem>
InChi	InChI=1S/C23H26N2O2S.ClH/c1-18-7-4-8-19(15-18)17-27-22-11-3-2-10-21(22)23(26)25(13-6-12-24)16-20-9-5-14-28-20;/h2-5,7-11,14-15H,6,12-13,16-17,24H2,1H3;1H
InChiKey	UDXGBANGPYONOK-UHFFFAOYSA-N

References

TRPM8 ion channels differentially modulate proliferation and cell cycle distribution of normal and cancer prostate cells.

Valero ML *et al* (2012) PLoS One 7(12)

PubMedID [23251635](#)

AMTB, a TRPM8 channel blocker: evidence in rats for activity in overactive bladder and painful bladder syndrome.

Lashinger ES *et al* (2008) Am J Physiol Renal Physiol 295(3)

PubMedID [18562636](#)

Human TRPM8 and TRPA1 pain channels, including a gene variant with increased sensitivity to agonists (TRPA1 R797T), exhibit differential regulation by SRC-tyrosine kinase inhibitor.

Morgan K *et al* (2014) Biosci Rep 34(4)

PubMedID [24975826](#)
