

Product Name: AMTB hydrochloride

Catalog No.: 3989

Batch No.: 1

CAS Number: 926023-82-7

IUPAC Name: *N*-(3-Aminopropyl)-2-[(3-methylphenyl)methoxy]-*N*-(2-thienylmethyl)benzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₆N₂O₂S.HCl.¼H₂O

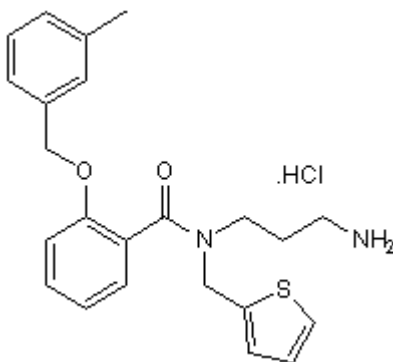
Batch Molecular Weight: 435.49

Physical Appearance: Pale yellow solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Chloroform:Methanol [9:1])

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 63.43 6.36 6.43

Found 63.46 6.27 6.48

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

TRPM8 channel blocker. Inhibits icilin-induced TRPM8 channel activation in a rat model ($pIC_{50} = 6.23$).

Physical and Chemical Properties:

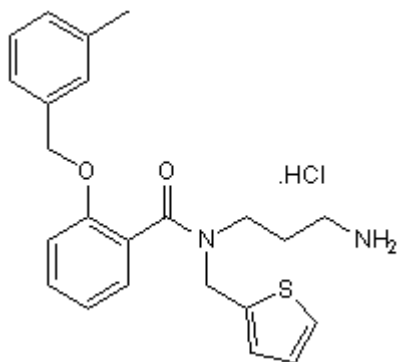
Batch Molecular Formula: $C_{23}H_{26}N_2O_2S \cdot HCl \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 435.49

Physical Appearance: Pale yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lashinger et al (2008) AMTB, a TRPM8 channel blocker: evidence in rats for activity in overactive bladder and painful bladder syndrome. *Am.J.Physiol.Renal Physiol.* **295** F803. PMID: 18562636.

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