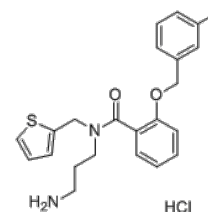


Product Name : AMTB hydrochloride
Cat. No. : PC-60718
CAS No. : 926023-82-7
Molecular Formula : C₂₃H₂₆N₂O₂S.HCl
Molecular Weight : 430.99
Target : TRP Channel
Solubility : 10 mM in DMSO



Biological Activity

AMTB hydrochloride is a selective **TRPM8** channel blocker with pEC₅₀ of 6.91 in Ca²⁺ influx assay, with no activity for TRPV4 (pEC₅₀<4.6).

AMTB hydrochloride inhibits icilin-activated Ca²⁺ influx in HEK293 cells with pIC₅₀ of 6.23, decreases the frequency of volume-induced bladder contractions, without reducing the amplitude of contraction in anesthetized rats.

AMTB hydrochloride also reduces proliferation rates and proliferative fraction in prostate cancer cells, but not of non-tumor prostate cells.

References

Lashinger ES, et al. *Am J Physiol Renal Physiol*. 2008 Sep;295(3):F803-10.

Valero ML, et al. *PLoS One*. 2012;7(12):e51825.

Uvin P, et al. *Eur Urol*. 2015 Oct;68(4):655-61.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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