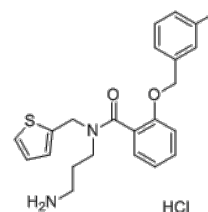


**Product Name** : AMTB hydrochloride  
**Cat. No.** : PC-60718  
**CAS No.** : 926023-82-7  
**Molecular Formula** : C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>2</sub>S.HCl  
**Molecular Weight** : 430.99  
**Target** : TRP Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

AMTB hydrochloride is a selective **TRPM8** channel blocker with pEC<sub>50</sub> of 6.91 in Ca(2+) influx assay, with no activity for TRPV4 (pEC<sub>50</sub><4.6).

AMTB hydrochloride inhibits icilin-activated Ca<sup>2+</sup> influx in HEK293 cells with pIC<sub>50</sub> 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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