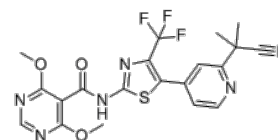


**Product Name** : Trpvicin  
**Cat. No.** : PC-49411  
**CAS No.** : 2019994-90-0  
**Molecular Formula** : C<sub>20</sub>H<sub>17</sub>F<sub>3</sub>N<sub>6</sub>O<sub>3</sub>S  
**Molecular Weight** : 478.450  
**Target** : TRP Channel  
**Solubility** : 10 mM in DMSO



### Biological Activity

Trpvicin is a potent and subtype-selective inhibitor of **TRPV3** with IC<sub>50</sub> of 0.41 and 0.22 μM for hTRPV3-WT and hTRPV3-G573S mutant, respectively.

Trpvicin displays no significant inhibitory activities against hTRPV1, mTRPV2 and hTRPV4-6.

Trpvicin inhibits the TRPV3 channel by stabilizing it in a closed state.

Trpvicin accesses additional binding sites inside the central cavity of the G573S mutant to remodel the channel symmetry and block the channel.

Trpvicin exhibits pharmacological potential in the inhibition of itch and hair loss in mouse models.

### References

Fan J, et al. *Nat Chem Biol.* 2022 Oct 27. doi: 10.1038/s41589-022-01166-5.

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

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