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DATASHEET

Trpvicin

Product overview

Name	Trpvicin
Cat No	HB9908
Biological action	Inhibitor
Purity	>99%
Description	Novel, potent, subtype-selective TRPV3 inhibitor

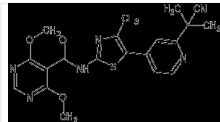
Biological Data

Biological description	Novel, potent, subtype-selective TRPV3 inhibitor which antagonizes both the hTRPV3-WT and the pathogenic mutant hTRPV3-G573S channels (IC ₅₀ values are 0.41 μM and 0.22 μM respectively and 0.38 μM at mTRPV3). Inhibits the TRPV3 channel by stabilizing it in a closed state. Attenuates TRPV3-mediated responses to show pharmacological potential in the inhibition of itch and hair loss in mouse models.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM)
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	N-(5-(2-(2-cyanopropan-2-yl)pyridin-4-yl)-4-(trifluoromethyl)thiazol-2-yl)-4,6-dimethoxypyrimidine-5-carboxamide
Molecular Weight	478.45
Chemical structure	
Molecular Formula	C ₂₀ H ₁₇ F ₃ N ₆ O ₃ S
PubChem identifier	122589101
SMILES	<chem>O=C(Nc1nc(c(s1)c1ccnc(c1)C(C)(C)C#N)C(F)(F)F)c1c(OC)ncnc1OC</chem>
Source	Synthetic
InChi	InChI=1S/C20H17F3N6O3S/c1-19(2,8-24)11-7-10(5-6-25-11)13-14(20(21,22)23)28-18(33-13)29-15(30)12-16(31-3)26-9-27-17(12)32-4/h5-7,9H,1-4H3,(H,28,29,30)
InChiKey	CPIDEBBVBVMQOC-UHFFFAOYSA-N
Appearance	White solid

References

Structural basis of TRPV3 inhibition by an antagonist.

