Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

Trpvicin

Product overview

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

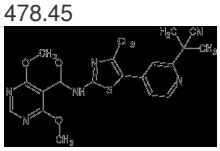
Biological Data

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 0.41μM and 0.22μM respectively and 0.38μM 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.

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	$C_{20}H_{17}F_3N_6O_3S$
PubChem identifier	122589101
SMILES	O=C(Nc1nc(c(s1)c1ccnc(c1)C(C)(C)C#N)C(F)(F)F)c1c(OC)ncnc1OC
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	CPIDEBBXBVMQOC-UHFFFAOYSA-N
Appearance	White solid

References

Structural basis of TRPV3 inhibition by an antagonist.

Fan J et al (2023) Nature chemical biology 19

PubMedID	36302896