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** HB9908 Cat No **Biological action** Inhibitor >99% **Purity**

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 μ M and 0.22 μ M 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

Solubility overview Storage instructions

Storage of solutions

Shipping Conditions

Important

Soluble in DMSO (100 mM)

Room temperature

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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-ca

> rboxamide 478.45

Molecular Weight

Chemical structure

 $C_{20}H_{17}F_3N_6O_3S$

Molecular Formula **PubChem identifier**

122589101

SMILES O=C(Nc1nc(c(s1)c1ccnc(c1)C(C)(C)C#N)C(F)(F)F)c1c(OC)ncnc1OCSource

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)

CPIDEBBXBVMQOC-UHFFFAOYSA-N

InChiKey White solid **Appearance**

Structural basis of TRPV3 inhibition by an antagonist.

Fan J et al (2023) Nature chemical biology 19 **PubMedID** 36302896