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DATASHEET

KC159

Product overview

Name KC159
Cat No HB7601
Biological action Activator
Purity >98%

Description Novel, selective Piezo1 channel activator. Improved efficacy and potency compared to Yoda1.

Biological Data

Biological descriptionNovel, selective Piezo1 channel activator which shows improved (or equivalent) reliability, efficacy and

potency in functional assays compared to Yoda1 but is less potent than Yoda2 (KC289) (EC₅₀ values are 280nM, 150nM and 600nM at mouse Piezo1 in calcium assays for KC159, Yoda2 (KC289) and Yoda1 respectively). Selective for Piezo1 over other membrane proteins and shows improved aqueous solubility compared to Yoda1. Active in vivo and shows vasorelaxant effects. Yoda1 analogue.

Solubility & Handling

Solubility overview Soluble in DMSO (100 mM)
Storage instructions Room Temperature

Storage of solutions 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.

Shipping Conditions Sta

Important

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 4-(5-{[(2,6-dichlorophenyl)methyl]sulfanyl}-1,3,4-thiadiazol-2-yl)benzoic acid Molecular Weight 397.3

Chemical structure

Molecular Formula $C_{16}H_{10}CI_2N_2O_2S_2$

Source Synthetic

InChi InChi=1S/C16H10Cl2N2O2S2/c17-12-2-1-3-13(18)11(12)8-23-16-20-19-14(24-16)9-4-6-10(7-5-9)1

5(21)22/h1-7H,8H2,(H,21,22)

InChiKey KFIUJWYVLYQUOY-UHFFFAOYSA-N

References

Improved PIEZO1 agonism through 4-benzoic acid modification of Yoda1.

Parsonage G et al (2023) British journal of pharmacology 180

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