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DATASHEET

Yaddle1

Product overview

Name	Yaddle1
Cat No	HB15754
Biological action	Agonist
Purity	>98%
Description	Novel, Piezo1 channel agonist

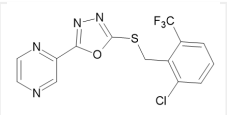
Biological Data

Biological description	Novel, Piezo1 channel agonist (MEC_{50} = 0.4µM). Modulates Piezo channels at concentrations ranging 0.4 to 1.8µM and is thought to stabilize the Piezo1 channel in its open confirmation. Induces Ca^{2+} influx in $hCD4^{+}$ T-cells and may show potential vaccine adjuvant research usage. Show 10-fold improved kinetic solubility compared to Yoda1.

Solubility & Handling

Solubility overview	Soluble in DMSO (100mM)
Storage instructions	+4°C
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	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	2-[5-({[2-chloro-6-(trifluoromethyl)phenyl]methyl}sulfanyl)-1,3,4-oxadiazol-2-yl]pyrazine
Molecular Weight	372.75
Chemical structure	
Molecular Formula	$C_{14}H_8ClF_3N_4OS$
SMILES	FC(F)(F)C1=C(CSC2=NN=C(O2)C2=CN=CC=N2)C(Cl)=CC=C1
Source	Synthetic
InChi	InChI=1S/C14H8ClF3N4OS/c15-10-3-1-2-9(14(16,17)18)8(10)7-24-13-22-21-12(23-13)11-6-19-4-5-20-11/h1-6H,7H2
Appearance	off-white solid

References

Exploring the Structural Attributes of Yoda1 for the Development of New-Generation Piezo1 Agonist Yaddle1 as a Vaccine Adjuvant Targeting Optimal T Cell Activation.

Goon S et al (2024) Journal of medicinal chemistry 67
PubMedID 38716967