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DATASHEET

Jedi2

Product overview

Name	Jedi2
Cat No	HB8049
Biological action	Activator
Purity	>98%
Description	Piezo1 channel activator

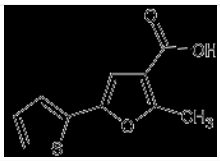
Biological Data

Biological description	Piezo1 channel activator which promotes calcium influx into HEK293 cells expressing Piezo1. Shows various effects such as causing a loss of typical red blood cell shape causes RBC dehydration.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (100 mM), and in ethanol (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	2-Methyl-5-(2-thienyl)-3-furancarboxylic acid
Molecular Weight	208.23
Chemical structure	
Molecular Formula	$C_{10}H_8O_3S$
CAS Number	651005-90-2
PubChem identifier	2796026
SMILES	CC1=C(C=C(O1)C2=CC=CS2)C(=O)O
InChi	InChI=1S/C10H8O3S/c1-6-7(10(11)12)5-8(13-6)9-3-2-4-14-9/h2-5H,1H3,(H,11,12)
InChiKey	YXDCRSXNEOKXDE-UHFFFAOYSA-N
MDL number	MFCD01569561

References

A lever-like transduction pathway for long-distance chemical- and mechano-gating of the mechanosensitive Piezo1 channel.

Wang Y et al (2018) Nature communications 9

PubMedID 29610524

Impact of PIEZO1-channel on inflammation and osteoclastogenesis mediated via periodontal ligament fibroblasts during mechanical loading.

Schröder A et al (2023) European journal of oral sciences 131
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