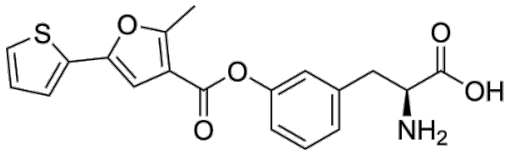
Product Data Sheet

Product Name: Piezo1 agonist 2
Cat. No.: GC81585

Chemical Properties

Cas. No.	3124796-49-9		
Formula	$C_{19}H_{17}NO_5S$	M.Wt	371.41
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Piezo1 agonist 2 (Compound PD2) is a blood-brain barrier-permeable Piezo1 agonist and Jedi2 conjugate that utilizes LAT1. Piezo1 agonist 2 releases Jedi2 in mice. Piezo1 agonist 2 can be used for the research of neurodegenerative diseases [1].

In Vivo, Piezo1 agonist 2 (15 μmol/kg; i.p.; single bolus injection) enhances the brain targeting of its active metabolite Jedi2 in mice[1].

In Vitro, The half-life of Piezo1 agonist 2 (PD2) (5 h) is 33 ± 1 min in mouse serum and 71 ± 1 min in

mouse liver S9[1]. Piezo1 agonist 2 (PD2) (5-200 μM; 30 min) is taken up in a concentration-dependent manner by mouse microglial BV2 cells, with a Km value of 148 μM[1]. Piezo1 agonist 2 (PD2) (1-100 μM; 48 h) does not significantly reduce the viability of mouse microglial BV2 cells at concentrations up to 100 μM, with cell viability remaining above 92 ± 2% of that in the untreated control group[1].

References:

[1]. Anamea L, et al. Brain-targeted Jedi1 and Jedi2 derivatives as potent enhancers of Piezo1 ion channel activity. Eur J Med Chem. 2026;302(Pt 2):118359.

Caution: Product has not been fully validated for medical applications. For research use only.
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