

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

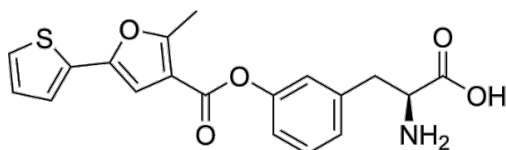
Solubility

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

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mouse liver S9^[1]. Piezo1 agonist 2 (PD2) (5-200 μ M; 30 min) is taken up in a concentration-dependent manner by mouse microglial BV2 cells, with a K_m value of 148 μ M^[1]. Piezo1 agonist 2 (PD2) (1-100 μ M; 48 h) does not significantly reduce the viability of mouse microglial BV2 cells at concentrations up to 100 μ M, with cell viability remaining above $92 \pm 2\%$ 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.

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