

## Product Data Sheet

Product Name: Piezo1 agonist 2 hydrochloride

Cat. No.: GC81852

### Chemical Properties

Cas. No.

Formula  $C_{19}H_{18}ClNO_5S$  M.Wt 407.87

Solubility DMSO: 50 mg/mL (122.59 mM; Need ultrasonic) Storage Store at 4°C, sealed storage, away from moisture

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 hydrochloride is a blood-brain barrier-permeable Piezo1 agonist and Jedi2

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

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conjugate that utilizes LAT1. Piezo1 agonist 2 hydrochloride releases Jedi2 in mice. Piezo1 agonist 2 hydrochloride can be used for the research of neurodegenerative diseases [1].

In Vivo, Piezo1 agonist 2 (PD2) (15  $\mu\text{mol/kg}$ ; i.p.; single bolus injection) hydrochloride enhances the brain targeting of its active metabolite Jedi2 in mice[1].

In Vitro, The half-life of Piezo1 agonist 2 (PD2) (5 h) hydrochloride is 33 min in mouse serum and 71 min in mouse liver S9[1]. Piezo1 agonist 2 (5-200  $\mu\text{M}$ ; 30 min) hydrochloride is taken up in a concentration-dependent manner by mouse microglial BV2 cells, with a  $K_m$  value of 148  $\mu\text{M}$ [1]. Piezo1 agonist 2 (1-100  $\mu\text{M}$ ; 48 h) hydrochloride does not significantly reduce the viability of mouse microglial BV2 cells at concentrations up to 100  $\mu\text{M}$ , with cell viability remaining above 92 % 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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