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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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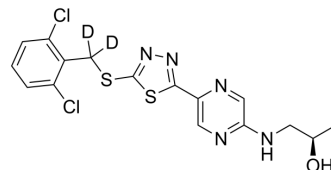
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Piezo1 agonist 1-d₂

Cat. No.:	HY-169332
CAS No.:	3058199-62-2
Molecular Formula:	C ₁₆ H ₁₃ D ₂ Cl ₂ N ₅ OS ₂
Molecular Weight:	430.37
Target:	Piezo Channel; ERK
Pathway:	Membrane Transporter/Ion Channel; MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Piezo1 agonist 1-d ₂ (Compound 12a) is an agonist for Piezo1 with an EC ₅₀ of 2.21 μM. Piezo1 agonist 1-d ₂ activates the Ca ²⁺ -related ERK signaling pathway, and thus promotes the osteogenic differentiation of bone marrow mesenchymal stem cells (BMSCs). Piezo1 agonist 1-d ₂ ameliorates disuse osteoporosis in the hindlimb-unloading (HU) rat model ^[1] .
IC ₅₀ & Target	EC ₅₀ : 2.21 μM (Piezo1)

REFERENCES

[1]. Tang H, et al., Structural Modification and Pharmacological Evaluation of (Thiadiazol-2-yl)pyrazines as Novel Piezo1 Agonists for the Intervention of Disuse Osteoporosis. J Med Chem. 2024 Nov 14;67(21):19837-19851.

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

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