

ANO1-IN-5

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	ANO1-IN-5 is an orally active ANO1 inhibitor with an IC50 of 4.57 μ M. It demonstrates selectivity for α 1A-, α 1B-, and α 1D-AR at 118-fold, 642-fold, and 10,000-fold, respectively, compared to ANO1. ANO1-IN-5 significantly inhibits the differentiation and function of osteoclasts and is applicable for osteoporosis research.
Targets(IC50)	Chloride channel
In vitro	ANO1-IN-5 (Compound 10) significantly inhibits the formation of TRAP+ multinucleated osteoclasts at a concentration of 20 μ M over 5 days. It also notably reduces the mRNA expression of osteoclast marker genes such as NFATc1, Acp5, Ctsk, and Mmp9 at the same concentration. ANO1-IN-5 directly impedes the Cl- secretion function of osteoclasts by inhibiting ANO1.
In vivo	ANO1-IN-5 (Compound 10) (3-30 mg/kg, administered orally, once daily for 4 weeks) effectively alleviates bone loss associated with post-ovariectomy pain (OVX) and significantly improves trabecular bone volume and morphology parameters in mice.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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