Acevaltrate

Cat. No.: HY-N2070

CAS No.: 25161-41-5

Molecular Formula: $C_{24}H_{32}O_{10}$

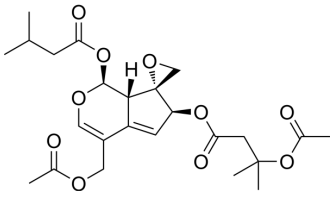
Molecular Weight: 480.5

Target: Na+/K+ ATPase

Pathway: Membrane Transporter/Ion Channel

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (208.12 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.0812 mL	10.4058 mL	20.8117 mL
5 mM	0.4162 mL	2.0812 mL	4.1623 mL
10 mM	0.2081 mL	1.0406 mL	2.0812 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Acevaltrate inhibits the Na^+/K^+-ATPase activity in the rat kidney and brain hemispheres with IC_{50}s of 22.8 μM and 42.3 μM, respectively[1].

IC_{50} & Target

IC50: 22.8±1.1 μM (Na^+/K^+-ATPase, in rat kidney), 42.3±1.0 μM (Na^+/K^+-ATPase, in rat brain hemispheres)[1]

In Vitro

Acevaltrate differentiallys inhibit the activity of rat P-type ATPases in vitro. 60.7±7.3% inhibition of the rat H^+/K^+-ATPase is achieved at 100 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Acta Pharmacol Sin. 2021 Aug;42(8):1338-1346.

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REFERENCES

[1]. Bettero GM, et al. In vitro effect of valepotriates isolated from Valeriana glechomifolia on rat P-type ATPases. Planta Med. 2011 Oct;77(15):1702-6.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA