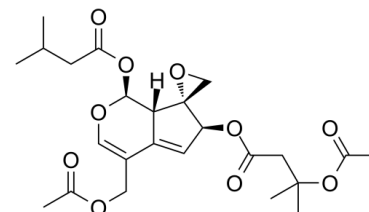


Data Sheet

Product Name:	Acevaltrate
Cat. No.:	CS-0018575
CAS No.:	25161-41-5
Molecular Formula:	C ₂₄ H ₃₂ O ₁₀
Molecular Weight:	480.50
Target:	Na ⁺ /K ⁺ ATPase
Pathway:	Membrane Transporter/Ion Channel
Solubility:	DMSO : ≥ 125 mg/mL (260.15 mM)



BIOLOGICAL ACTIVITY:

Acevaltrate, isolated from *Valeriana glechomifolia*, inhibits the Na⁺/K⁺-ATPase activity in the rat kidney and brain hemispheres with IC₅₀s of 22.8±1.1 μM and 42.3±1.0 μM, respectively^[1]. IC₅₀ & 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 differentially 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].

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.

CAIndexNames:

Butanoic acid, 3-(acetyloxy)-3-methyl-, (1S,2'R,6S,7aS)-4-[(acetyloxy)methyl]-6,7a-dihydro-1-(3-methyl-1-oxobutoxy)spiro[cyclopenta[c]pyran-7(1H),2'-oxiran]-6-yl ester

SMILES:

O=C(CC(C)C)OC(C)=O)O[C@@H]1[C@]2(CO2)[C@]([C@@H]3OC(CC(C)C)=O)([H])C(C(COC(C)=O)=CO3)=C1

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

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