
Product Data Sheet

Product Name: Valepotriate

Cat. No.: GC39232

Chemical Properties

Cas. No. 18296-44-1

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

Formula $C_{22}H_{30}O_8$ M.Wt 422.47

Solubility Soluble in DMSO Storage $-20^{\circ}C$, protect from light

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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**

Valtrate is a valepotriate that has been found in *Valeriana* and has diverse biological activities.^{1,2,3} It inhibits nuclear export of influenza virus ribonucleoprotein complex (vRNP) in HeLa cells when used at a concentration of $3.6 \mu M$ and inhibits influenza virus infection in MDCK cells ($IC_{50} = 0.19 \mu M$).¹ Valtrate is cytotoxic to GLC-4 lung and COLO 320 colorectal cancer cells (IC_{50} s = 1.4 and $3 \mu M$, respectively).² It increases the number of entries into, and percentage of time spent in, the open arms of the elevated plus maze, indicating anxiolytic-like activity, and decreases serum corticosterone levels in rats when administered at a dose of 10 mg/kg .³

1. Watanabe, K., Takatsuki, H., Sonoda, M., et al. Anti-influenza viral effects of novel nuclear export inhibitors from *Valeriana* Radix and *Alpinia galanga* Drug Discov. Ther. 5(1)26-31(2016)
 2. Bos, R., Hendriks, H., Scheffer, J.J., et al. Cytotoxic potential of valerian constituents and valerian tinctures Phytomedicine 5(3)219-225(1998)
 3. Shi, S.-N., Shi, J.-L., Liu, Y., et al. The anxiolytic effects of valtrate in rats involves changes of

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

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corticosterone levels Evid. Based Complement. Alternat. Med. 32:5948 (2014)

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