

Product Data Sheet

Product Name: KM 233
Cat. No.: GC44009

Chemical Properties

Cas. No. 628263-22-9

SMILES CC(C1=CC=CC=C1)(C)C2=CC(O)=C3C(OC(C)(C)[C@H]4[C@H]3CC(C)=CC4)=C2

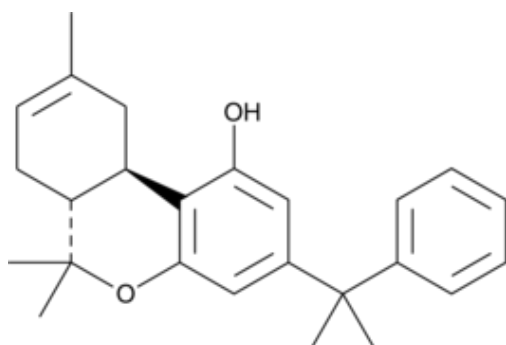
Formula C₂₅H₃₀O₂ M.Wt 362.5

Solubility DMF: 30 mg/ml, DMF:PBS(pH7.2) Storage Store at -20°C
(1:2): 0.3 mg/ml, DMSO: 20 mg/ml, Ethanol: 3 mg/ml

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

Because selective activation of peripheral cannabinoid (CB₂) receptors in rat C-6 glioma cells has been shown to induce apoptosis through enhanced ceramide synthesis de novo, CB₂ agonists present potential as anti glioma agents. KM 233 is a 8-tetrahydrocannabinol analog with a dimethyl substitution that exhibits high binding affinity for both the CB₁ and CB₂ receptors with 13-fold selectivity for the CB₂ receptor ($K_{is} = 12.3$ and 0.91 nM, respectively). Demonstrating good lipophilicity and ability to penetrate the blood brain barrier, KM 233 inhibits human U87 glioma cell proliferation in vitro with an IC₅₀ value of 1.4 μ M and significantly reduces U87 glioma tumor size in vivo at a dose of 2 mg/kg in a SCID mouse xenograft side-pocket model.

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

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