

Product Data Sheet

Product Name: VCE-004.8

Cat. No.: GC37889

Chemical Properties

Cas. No. 1818428-24-8

SMILES O=C1C(O)=C([C@@H]2C=C(C)CC[C@H]2C(C)=C)C(C(NCC3=CC=CC=C3)=C1CCCCC)=O

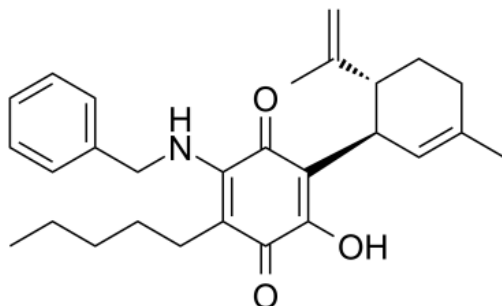
Formula $C_{28}H_{35}NO_3$ M.Wt 433.58

Solubility DMSO: 100 mg/mL (230.64 mM) Storage Store at -20°C

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

VCE-004.8, a semi-synthetic multitarget cannabinoquinoid, is a specific PPAR γ and CB2 receptor dual agonist with potent anti-inflammatory activity[1]. VCE-004.8 inhibits prolyl-hydroxylases (PHDs) and activates the HIF pathway. VCE-004.8 attenuates adipogenesis and prevents diet-induced obesity[2]. PPAR γ CB2

VCE-004.8 (injection; 20 mg/kg/day; for 3 weeks) induces a significant reduction in body weight gain,

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total fat mass, adipocyte volume and plasma triglycerides levels in HFD mice. VCE-004.8 can also significantly ameliorate glucose tolerance, reduce leptin levels (a marker of adiposity) and increase adiponectin and incretins (GLP-1 and GIP) levels[1].

[1]. Navarrete C, et al. Hypoxia mimetic activity of VCE-004.8, a cannabidiol quinone derivative: implications for multiple sclerosis therapy. J Neuroinflammation. 2018 Mar 1;15(1):64. [2]. Palomares B, et al. VCE-004.8, A Multitarget Cannabinoquinone, Attenuates Adipogenesis and Prevents Diet-Induced Obesity. Sci Rep. 2018 Oct 31;8(1):16092.

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