
Product Data Sheet

Product Name: Ezetimibe ketone

Cat. No.: GC60159

Chemical Properties

Cas. No. 191330-56-0

SMILES O=C1N(C2=CC=C(F)C=C2)[C@H](C3=CC=C(O)C=C3)[C@H]1CCC(C4=CC=C(F)C=C4)=OFormula $C_{24}H_{19}F_2NO_3$

M.Wt 407.41

Solubility DMSO : 100 mg/mL (245.45 mM; Need ultrasonic)

Storage

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**

Ezetimibe ketone (EZM-K) is a phase-I metabolite of Ezetimibe. Ezetimibe is a Niemann-Pick C1-like1 (NPC1L1) inhibitor, and is a potent Nrf2 activator. Ezetimibe is a potent cholesterol absorption inhibitor[1][2][3].

[1]. Yijun Zhu, et al. Efficient and scalable process for the synthesis of antihypercholesterolemic drug ezetimibe. Synthetic Communications. 2016, 46:20, 1687-1693. [2]. Lee DH, et al. Ezetimibe, an NPC1L1 inhibitor, is a potent Nrf2 activator that protects mice from diet-induced nonalcoholic steatohepatitis. Free Radic Biol Med. 2016 Sep 12;99:520-532. [3]. Chang E, et al. Ezetimibe improves hepatic steatosis in relation to autophagy in obese and diabetic rats. World J Gastroenterol. 2015 Jul 7;21(25):7754-63.

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

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