

Product Data Sheet

Product Name: MAGL Inhibitor Compound 23

Cat. No.: GC41185

Chemical Properties

Cas. No. 2324160-91-8

SMILES CC(C)C1=CC=C(C(C2CCN(C(C3=CC(O)=CC=C3F)=O)CC2)=O)C=C1

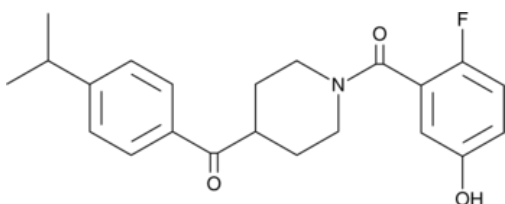
Formula C₂₂H₂₄FNO₃ M.Wt 369.4

Solubility DMF: 25 mg/ml, DMF:PBS (pH 7.2) (1:6): 0.14 mg/ml, DMSO: 20 mg/ml, Ethanol: 2.5 mg/ml
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

MAGL inhibitor compound 23 is an inhibitor of monoacylglycerol lipase (MAGL; IC₅₀ = 80 nM). It is selective for MAGL over cannabinoid receptor 1 (CB1), CB2, fatty acid amide hydrolase (FAAH), α/β-hydrolase domain-containing protein 6 (ABHD6), and ABHD12 (IC₅₀s = >10 μM). MAGL inhibitor compound 23 inhibits the growth of HCT116, MDA-MB-231, Caov-3, OVCAR-3, and SKOV3 cells (IC₅₀s = 21, 7.9, 25, 57, and 15 μM, respectively) but not MRC5 cells (IC₅₀ = >100 μM). It increases the levels of 2-arachidonoyl glycerol in mouse brain and plasma when administered at a dose of 50 mg/kg.

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

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