
Product Data Sheet

Product Name: MK-8245 Trifluoroacetate

Cat. No.: GC36626

Chemical Properties

Cas. No. 1415559-41-9

SMILES O=C(CN1N=C(N=N1)C2=CC(N3CCC(CC3)OC4=CC(F)=CC=C4Br)=NO2)O.FC(C(O)=O)(F)FFormula $C_{19}H_{17}BrF_4N_6O_6$ M.Wt 581.27

Solubility Soluble in DMSO 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**

MK-8245 is a liver-targeted inhibitor of stearoyl-CoA desaturase (SCD; IC_{50} s = 3, 3, and 1 nM for rat, mouse, and human SCD1, respectively).¹ It is selective for SCD1 over Δ^5 - and Δ^6 -desaturases (IC_{50} s = >100,000 nM). MK-8245 (20-60 mg/kg) reduces the hepatic, but not Harderian gland, ratio of oleic acid to stearic acid, a marker of chronic SCD activity, and blood glucose levels, without inducing the formation of skin lesions or eye squinting behavior, in a mouse model of high-fat diet-induced obesity. It also inhibits hepatitis C virus (HCV) replication without inducing cytotoxicity in LucNeo2 cells (IC_{50} = 39.8 nM).²

1. Oballa, R.M., Belair, L., Black, W.C., et al. Development of a liver-targeted stearoyl-CoA desaturase (SCD) inhibitor (MK-8245) to establish a therapeutic window for the treatment of diabetes and dyslipidemia. *J. Med. Chem.* 54(14):5082-5096(2011)
 2. Nio, Y., Hasegawa, H., Okamura, H., et al. Liver-specific mono-unsaturated fatty acid synthase-1 inhibitor for anti-hepatitis C treatment. *Antiviral Res.* 132:262-267(2016)

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

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