

Product Data Sheet

Product Name: KLH45
Cat. No.: GC44008

Chemical Properties

Cas. No. 1632236-44-2

SMILES O=C(N(C1CCCCC1)CCC2=CC=CC=C2)N3N=C(C4=CC=C(OC(F)(F)F)C=C4)C=N3

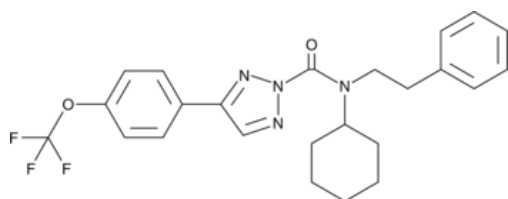
Formula C₂₄H₂₅F₃N₄O₂ M.Wt 458.5

Solubility DMSO: 30 mg/ml, Ethanol: 30 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

KLH45 is an inhibitor of the phospholipase DDHD domain containing 2 (DDHD2; IC₅₀ = 1.3 nM). It is selective for DDHD2 over greater than 50 serine hydrolases, including DDHD1 and Sec23ip, but does not inhibit α/β -hydrolase domain-containing protein 6 (ABHD6). It inhibits DDHD2 and ABHD6 in Neuro2A cells when used at a concentration of less than 10 nM and inhibits DDHD2 by greater than 95% at a concentration of 25 nM. KLH45 (2 μ M) prevents increases in triacylglycerol (TAG) hydrolase activity in HEK293T cell lysates expressing recombinant DDHD2 and incubated with a radiolabeled TAG substrate. It decreases TAG levels in the CNS of mice when administered at a dose of 20 mg/kg twice per day for four days. KLH45 (2 μ M) also reverses DDHD2-induced lipid droplet reduction in COS-7 cells expressing recombinant DDHD2 and loaded with oleic acid.

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

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