
Product Data Sheet

Product Name: NHI 2
Cat. No.: GC50151

Chemical Properties

Cas. No. 1269802-97-2

SMILES ON2C1=CC(C3=CC=CC=C3)=CC(C(F)(F)F)=C1C=C2C(OC)=O

Formula $C_{17}H_{12}F_3NO_3$ M.Wt 335.28

Solubility DMSO: 25 mg/ml, Ethanol: 25 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 sizes: ship with RT, or blue ice upon request.

Structure

Background

LDHA inhibitor; reduces lactate production in HeLa cells. Inhibits cell growth of LPC006 and PANC-1 cells in vitro. Enhances the antiproliferative effects of Gemcitabine on LPC006 and PANC-1 cells. Also inhibits ferroptosis.

Maftouh et al (2014) Synergistic interaction of novel lactate dehydrogenase inhibitors with gemcit. against pancreatic cancer cells in hypoxia. Br.J.Cancer 110 172 PMID:24178759 | Calvaresi et al (2013) Dual targeting of the Warburg effect with a glucose-conjugated lactate dehydrogenase inhibitor. ChemBiochem 14 2263 PMID:24174263 | Granchi et al (2013) Assessing the differential action on cancer cells of LDH-A inhibitors based on the N-hydroxyindole-2-carboxylate (NHI) and malonic (Mal) scaffolds. Org.Biomol.Chem. 11 6588 PMID:23986182 | Jacobsen et al (2018) APD-containing cyclolipopeptides target mitochondrial function in hypoxic cancer cells. Cell Chem.Biol. 25 1337 PMID:30122371

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

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