

Product Name: NHI 2

Catalog No.: 5363

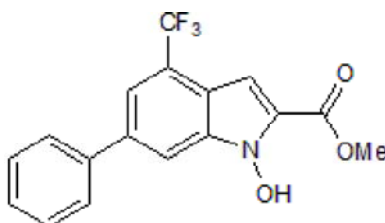
Batch No.: 2

CAS Number: 1269802-97-2

IUPAC Name: Methyl 1-hydroxy-6-phenyl-4-(trifluoromethyl)-1*H*-indole-2-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₂F₃NO₃
Batch Molecular Weight: 335.28
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Ethyl acetate:Petroleum ether [4:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.9	3.61	4.18
Found	60.93	3.55	4.14

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

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 (Cat. No. 3259) on LPC006 and PANC-1 cells. Also inhibits ferroptosis.

Physical and Chemical Properties:

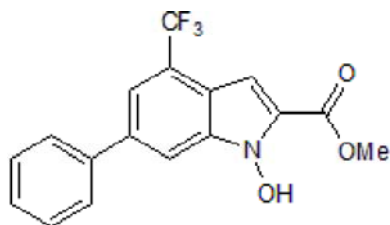
Batch Molecular Formula: C₁₇H₁₂F₃NO₃

Batch Molecular Weight: 335.28

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Jacobsen et al (2018) APD-containing cyclolipopeptides target mitochondrial function in hypoxic cancer cells. *Cell Chem.Biol.* **25** 1337. PMID: 30122371.

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.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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