

NHI-2, LDHA inhibitor

Catalog	Unit
TBI4555-10MG	10 mg
TBI4555-50MG	50 mg

Product Details

Formal Name: Methyl 1-Hydroxy-6-phenyl-4-trifluoromethyl-1H-indole-2-carboxylate

Molecular Formula: C₁₇H₁₂F₃NO₃

Formula Weight: 335.28

CAS Number: 1269802-97-2

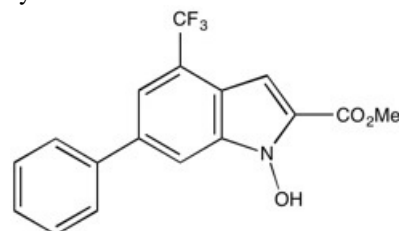
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 25 mg/ml).

Storage: -20°C

Stability: ≥ 1 year.



Applications

LDHA inhibitor

Functions

NHI-2 is a selective inhibitor of Lactate Dehydrogenase A (LDHA) – IC₅₀ in vitro = 14.7 μM (NADH), 10.5 μM (Pyruvate). NHI-2 has also shown cellular growth inhibitory effects against pancreatic cancer cells (PANC-1 cells IC₅₀ = 22.2 μM normoxic and 4.0 μM hypoxic; LPC006 cells IC₅₀ = 17.8 μM normoxic and 1.1 μM hypoxic) with increased efficacy in a cancer cells hypoxic environment. LDHA is a key enzyme involved in the Warburg effect and a cancer cells ability to survive in a hypoxic environment.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.