

(R)-GNE-140, Lactate dehydrogenase inhibitor

Catalog	Unit
TBI4355-5MG	5 mg
TBI4355-25MG	25 mg

Product Details

Formal Name: (2R)-5-(2-Chlorophenyl)sulfanyl-4-hydroxy-2-(4-morpholin-4-ylphenyl)-2-thiophen-3-yl-1,3-dihydropyridin-6-one

Molecular Formula: C₂₅H₂₃ClN₃O₃S₂

Formula Weight: 499.0

CAS Number: 2003234-63-5

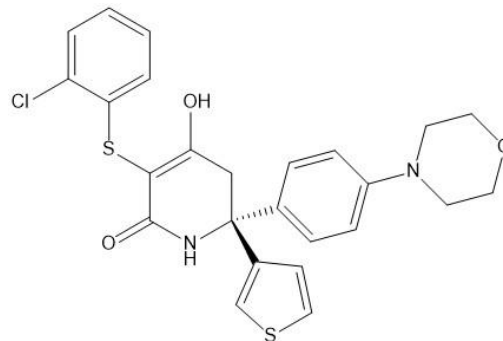
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Lactate dehydrogenase inhibitor

Functions

(R)-GNE-140 is a potent (IC₅₀'s: LDHA = 3 nM, LDHB = 5 nM, LDHC = 5 nM) pan-lactate dehydrogenase inhibitor. It significantly decreased lactate levels in vivo, although the effects were transient. GNE-140 suppressed lactic acid production, severely stunted glucose utilization, and impeded the anaerobic glycolytic pathway in MDA-MB-231 triple negative breast cancer cells.

Application Procedures

First dissolved in Soluble in DMSO (at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.