
Catalog	Unit
TBI1447-5MG	5 mg
TBI1447-25MG	25 mg

Product Details

Formal Name: 2-Cyano-3-(1-phenyl-1H-indol-3-yl)-2-propenoic acid

Molecular Formula: C₁₈H₁₂N₂O₂

Formula Weight: 288.30

CAS Number: 56396-35-1

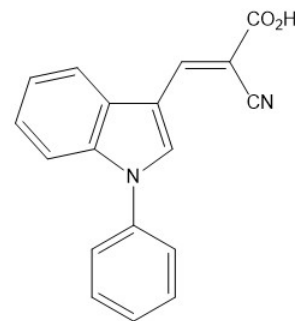
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 8 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Mitochondrial pyruvate carrier inhibitor; cell impermeable

Functions

Potent inhibitor of the mitochondrial pyruvate carrier (MPC). Rapidly increases glucose uptake in human monocytes. Attenuates mitochondrial oxidative phosphorylation and increases glycolysis creating greater stem-like properties in LnCap prostate cancer cells. Blocks the neuroprotective action of L-lactate or pyruvate during glutamate-induced excitotoxicity. Inhibits pyruvate transport across the plasma membrane of trypanosomes (K_i=49 μM).

Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in Ethanol (up to 8 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.