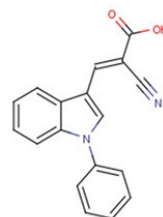


Product Name : UK-5099
Synonyms : UK-5099, UK 5099, UK5099
Cat No. : M17544
CAS Number : 56396-35-1
Molecular Formula : C₁₈H₁₂N₂O₂
Formula Weight : 288.3
Chemical Name : 2-cyano-3-(1-phenyl-1H-indol-3-yl)-2-propenoic acid



Description : UK-5099 is a specific and potent mitochondrial pyruvate carrier blocker (MCK blocker). The UK5099 treated cells showed significantly higher proportion of side population (SP) fraction and expressed higher levels of stemness markers Oct3/4 and Nanog. Chemosensitivity examinations revealed that the UK5099 treated cells became more resistant to chemotherapy compared to the non-treated cells. MPC blocker (UK5099) application may be an ideal model for Warburg effect studies

Pathway : Others

Target : Other Targets

Receptor : MPC

Solubility : DMSO : ≥ 50 mg/mL. 173.43 mM; H₂O : < 0.1 mg/mL

SMILES : OC(=O)C(=Cc1cn(-c2ccccc2)c2ccccc12)C#N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Halestrap A P. The mitochondrial pyruvate carrier. Kinetics and specificity for substrates and inhibitors[J]. Biochemical Journal, 1975, 148(1): 85-96.