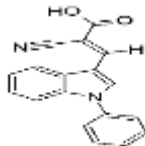


PRODUCT: UK-5099**ALTERNATE NAMES:** 2-cyano-3-(1-phenyl-1H-indol-3-yl)-2-propenoic acid**CATALOG NUMBER:** B1952-5,25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₈H₁₂N₂O₂**MOLECULAR WEIGHT:** 288.3**CAS NUMBER:** 56396-35-1**APPEARANCE:** Yellow solid**SOLUBILITY:** DMSO (>25 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20 °C. Protect from air and light

DESCRIPTION: UK-5099 is a potent and specific inhibitor of MPC (mitochondrial pyruvate carrier) activity. It potently inhibits pyruvate-dependent oxygen consumption by rat heart mitochondria with an IC₅₀ value of 50 nM. UK-5099 has recently been shown to block pyruvate from entering the mitochondria, which forces the production of lactate in the hair follicle stem cells and accelerates hair growth in mice.

REFERENCES: Flores, A., *et al.* (2017). *Nature Cell Biol.* **19**, 1017-1026.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Lactate Colorimetric/Fluorometric Assay Kit (K607)

Lactate Colorimetric Assay Kit II (K627)

D-Lactate Colorimetric Assay Kit II (K667)

PicoProbe™ D-Lactate Fluorometric Assay Kit (K668)

PicoProbe™ Lactate Fluorometric Assay Kit II (K638)

USAGE: **FOR RESEARCH USE ONLY! Not to be used in humans**