PRODUCT: Necrosis Inhibitor, Necro-5

ALTERNATE NAME: [5-(1,1-Dioxo-thiomorpholin-4-ylmethyl)-2-phenyl-1H-indol-7-yl]-[tetrahydro-pyran-4-ylmethyl]-amine

CATALOG #: 2229-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:

MOLECULAR FORMULA: C_{25}H_{31}N_{3}O_{3}S.2 CH_{4}O_{3}S

MOLECULAR WEIGHT: 645.83

CAS NUMBER: 1383718-29-3

APPEARANCE: Light pink solid

SOLUBILITY: DMSO (>10 mg/ml) or H_{2}O (>10 mg/ml)

PURITY: ≥95% by HPLC

STORAGE: At -20°C. Protect from light and moisture

DESCRIPTION: A cell-permeable necrosis inhibitor that displays antioxidant property. It localizes mostly in the mitochondria. Selectively blocks oxidative stress-induced necrotic cell death (0.1 μM NecroX-5 prevented ~50% cell death in H9C2 cells exposed to 400 μM t-BuOOH for 2 hours). Does not protect against staurosporine or etoposide-induced apoptosis. Protects cells against cold shock, hypoxia and oxidative stress in vitro, as well as CCl_{4}-induced acute liver injury and chronic liver fibrosis in rodent models.


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

RELATED PRODUCTS:
- Necrostatin-1 (Cat. No. 1864-5, 25)
- Necrostatin-5 (Cat. No. 1865-5, 25)
- Necrostatin-7 (Cat. No. 1866-5, 25)
- Necrox-2 (Cat. No. 2228-1, 5)

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