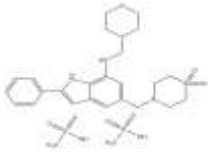
PRODUCT: Necrosis Inhibitor, Necrox-5

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: $C_{25}H_{31}N_3O_3S.2\ CH_4O_3S$

MOLECULAR WEIGHT: 645.83

CAS NUMBER: 1383718-29-3

APPEARANCE: Light pink solid

SOLUBILITY: DMSO (>10 mg/ml) or H_2O (>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.

REFRENCE: Kim, H.J.*, et al.* (2010). *Arch. Pharm. Res*. **33,** 1813-1823.

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***

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