

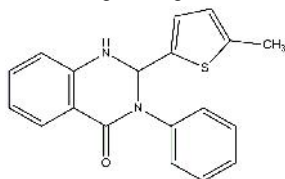
Product: Retro-2

ALTERNATE NAME: Retro-2(cycl); (\pm)-2-(5-methylthiophen-2-yl)-3-phenyl-2,3-dihydroquinazolin-4(1H)-one; Ricin retrograde transport blocker

CATALOG #: 2516-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₉H₁₆N₂OS

MOLECULAR WEIGHT: 320.41

CAS No. 1429192-00-6

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (~5 mg/ml)

PURITY: >98% by HPLC

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: An inhibitor of ribosome-inactivating proteins (RIPs). At a concentration of 200 mg/kg, Retro-2 displayed full protection of mice against a dose of ricin that killed 90% of an unprotected control mouse population. Blocks Leishmania parasitophorous vacuole (LPV) development. Retro-2 inhibited the replication of Leishmania parasites in axenic cultures.

REFERENCES: Park, J.W., *et al.* (2012). *Scientific Reports*, Article No. 631, doi:10.1038/srep00631; Canton J., and Kima, P.E. (2012). *Am. J. Pathol.* **181**, 1348-1355.

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

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Biochemicals

- Activators/Inducers/Agonists
- Antibiotics
- Anticancer agents
- Antioxidants
- Apoptosis Inducers
- Calcium modulators
- Detergents
- Enzyme Inhibitors
- Immunosuppressants
- Ionophores
- Protein Purification agents
- Stem cell Research Tools

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

FOR RESEARCH USE ONLY! Not to be used in humans.