Datasheet

Product overview

Name: Salubrinal
Cat No: HB0573
Short description: Selective eIF2α dephosphorylation inhibitor
Biological description: Selective eukaryotic translation initiation factor 2 subunit α (eIF2α) dephosphorylation inhibitor. Inhibits protein phosphatase 1 (PP1) action on eIF2α without inhibiting dephosphorylation of other PP1 substrates. Inhibit herpes simplex virus replication and protects cells from apoptosis through endoplasmic reticulum stress. Shows potential neuroprotective actions.
Alternative names: eIF-2α Inhibitor
Biological action: Inhibitor
Purity: >99%

Properties

Chemical name: 3-Phenyl-N[2,2,2-trichloro-1-[[8-quinolinylamino]thioxomethyl]amino]ethyl]-2-propen amide
Molecular Weight: 479.81
Chemical structure:

Molecular Formula: C_{21}H_{17}N_{4}O_{5}Cl_{3}
CAS Number: 405060-95-9
PubChem identifier: 5717801
SMILES: S=C(N(C(NC(/C=C/C3=CC=CC=C3)=O)C(Cl)(Cl)Cl)NC1=C2C(C=CC=N2)=CC=C1
InChIKey: LCOIAYJMPKKXARU-VAWYXSNFSA-N

Storing and Using Your Product

Storage instructions: +4 °C
Solubility overview: Soluble in DMSO (100mM)
Important: This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

References for Salubrinal
A selective inhibitor of eIF2alpha dephosphorylation protects cells from ER stress.


PubMedID: 15705855

A pharmacoproteomic approach implicates eukaryotic elongation factor 2 kinase in ER stress-induced cell death.


PubMedID: 18188169

Endoplasmic reticulum stress plays critical role in brain damage after chronic intermittent hypoxia in growing rats.


PubMedID: 24810321