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DATASHEET

Salubrinal

Product overview

Name	Salubrinal
Cat No	HB0573
Alternative names	eIF-2α Inhibitor
Biological action	Inhibitor
Purity	>99%
Description	Selective eIF2α dephosphorylation inhibitor

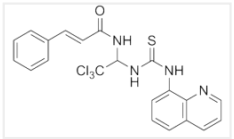
Biological Data

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.

Solubility & Handling

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.

Chemical Data

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	$C_{21}H_{17}N_4OSCl_3$
CAS Number	405060-95-9
PubChem identifier	5717801
SMILES	S=C(NC(NC(/C=C/C3=CC=CC=C3)=O)C(Cl)(Cl)Cl)NC1=C2C(C=CC=N2)=CC=C1
InChiKey	LCOIAYJMPKXARU-VAWYXSNFSA-N

References

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

Boyce M *et al* (2005) Science 307(5711)
PubMedID 15705855

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

Boyce M *et al* (2008) Cell Death Differ 15(3)
PubMedID 18188169

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

Cai XH *et al* (2014) Exp Neurol 257
PubMedID 24810321