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## DATASHEET

Salubrial

### Product overview

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

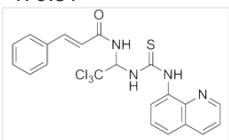
### Biological Data

<b>Biological description</b>	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.
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### Solubility & Handling

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

### Chemical Data

<b>Chemical name</b>	3-Phenyl- <i>N</i> -[2,2,2-trichloro-1-[[[8-quinolinylamino]thioxomethyl]amino]ethyl]-2-propen amide
<b>Molecular Weight</b>	479.81
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>17</sub> N <sub>4</sub> OSCl <sub>3</sub>
<b>CAS Number</b>	405060-95-9
<b>PubChem identifier</b>	5717801
<b>SMILES</b>	S=C(NC(NC(/C=C/C3=CC=CC=C3)=O)C(Cl)(Cl)Cl)NC1=C2C(C=CC=N2)=CC=C1
<b>InChiKey</b>	LCOIAYJMPKXARU-VAWYXSNFSA-N

### References

**A selective inhibitor of eIF2α 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](#)

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