

Salubrinal, eIF2α Phosphatase inhibitor; ER stress inhibitor

Catalog	Unit
TBI4517-5MG	5 mg
TBI4517-25MG	25 mg

Product Details

Formal Name: 3-Phenyl-N-[2,2,2-trichloro-1-[[(8-quinolinylamino)thioxomethyl]amino]ethyl]-2-propenamide

Molecular Formula: C₂₁H₁₇Cl₃N₄OS

Formula Weight: 479.81 **CAS Number:** 405060-95-9

Purity: >98% **Formulation:** powder

Solubility: Soluble in DMSO (up to 25 mg/ml)

Storage: -20° C Stability: ≥ 1 year.

CI₃C NH NH

Applications

eIF2α Phosphatase inhibitor; ER stress inhibitor

Functions

Endoplasmic reticulum (ER) stress inhibitor. Salubrinal is a selective inhibitor of cellular complexes that dephosphorylate eukaryotic initiation factor 2 subunit alpha (eIF2 α). It has been found to interact with the anti-apoptotic protein Bcl-2 offering protection from the apoptotic and autophagic effects that result from loss of Bcl-2 function. Salubrinal blocked NFATc1 expression and osteoclast differentiation by RANKL via phosphorylation of eLF2 α resulting in a decrease of global protein synthesis. It efficiently blocked osteoporosis in a mouse model treated with RANKL.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 3 months.

For research use only.