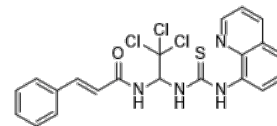


**Product Name** : Salubrinal  
**Cat. No.** : PC-23798  
**CAS No.** : 405060-95-9  
**Molecular Formula** : C<sub>21</sub>H<sub>17</sub>Cl<sub>3</sub>N<sub>4</sub>OS  
**Molecular Weight** : 479.80  
**Target** : Eukaryotic Initiation Factor (eIF)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Salubrinal is a selective inhibitor of eukaryotic translation initiation factor 2 subunit alpha (eIF2alpha, eIF2 $\alpha$ ) dephosphorylation, also is a potential inhibitor of dual-specificity phosphatase 2 (Dusp2). Salubrinal inhibits ER stress-mediated apoptosis induced by the protein glycosylation inhibitor tunicamycin (Tm) in a dose-dependent manner, with EC<sub>50</sub> of 15  $\mu$ M. Salubrinal blocks eIF2alpha dephosphorylation mediated by a herpes simplex virus protein and inhibits viral replication. Salubrinal inhibits Dusp2 in LPS-activated macrophages as well as PMA/ionomycin-activated T lymphocytes and mast cells. Salubrinal significantly suppressed the inflammatory signs of CAIA mice.

## References

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Boyce M, et al. Science. 2005 Feb 11;307(5711):935-9.  
Long K, et al. Bioorg Med Chem Lett. 2005 Sep 1;15(17):3849-52.  
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**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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