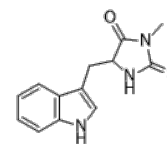


**Product Name** : Necrostatin-1  
**Cat. No.** : PC-22667  
**CAS No.** : 4311-88-0  
**Molecular Formula** : C<sub>13</sub>H<sub>13</sub>N<sub>3</sub>OS  
**Molecular Weight** : 259.33  
**Target** : RIP kinase  
**Solubility** : 10 mM in DMSO



## Biological Activity

Necrostatin-1 (Nec-1) is a potent, specific and BBB-permeable necroptosis inhibitor with EC<sub>50</sub> of 490 nM in Jurkat cells, selectively and allosterically inhibits RIP1 kinase (RIPK-1) with EC<sub>50</sub> of 182 nM.

Necrostatin-1 is a micromolar inhibitor of indolamine 2,3-deoxygenase (IDO) with EC<sub>50</sub> = 11.4 μM in a cell-based assay. Necrostatin-1 protects against glutamate-induced glutathione depletion and caspase-independent cell death in HT-22 cells.

## References

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Xu X, et al. J Neurochem. 2007 Dec;103(5):2004-14.

Degterev A, et al. Nat Chem Biol. 2008 May;4(5):313-21.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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