



LKT Laboratories, Inc.

Necrostatin-1

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Product Information

Product ID N1610
CAS No. 4311-88-0
Chemical Name

Synonym

Formula $C_{13}H_{13}N_3OS$
Formula Wt. 259.33

Melting Point

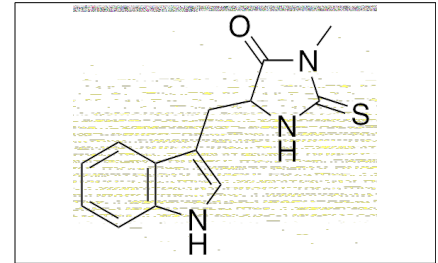
Purity $\geq 99\%$

Solubility Soluble in DMSO (10-25 mg/ml), 100% ethanol (6 mg/ml), and methanol (5 mg/ml).

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Necrostatin-1 is an inhibitor of receptor interacting protein 1 (RIP1), preventing necroptosis, a programmed cell death. Necrostatin-1 exhibits nephroprotective, neuroprotective, and cytoprotective activities. In animal models of chronic kidney disease, necrostatin-1 improves renal function and pathology by preventing loss of renal cells. Necrostatin-1 also prevents death of hippocampal neurons in animal models of cerebral ischemia.



Bulk quantities available upon request

Product ID	Size
N1610	5 mg
N1610	25 mg
N1610	100 mg

References Zhu Y, Cui H, Gan H, et al. Necroptosis mediated by receptor interaction protein kinase 1 and 3 aggravates chronic kidney injury of subtotal nephrectomised rats. *Biochem Biophys Res Commun*. 2015 Jun 12;461(4):575-81. PMID: 25907058.

Yin B, Xu Y, Wei RL, et al. Inhibition of receptor-interacting protein 3 upregulation and nuclear translocation involved in Necrostatin-1 protection against hippocampal neuronal programmed necrosis induced by ischemia/reperfusion injury. *Brain Res*. 2015 Jun 3;1609:63-71. PMID: 25801119.

Steinwascher S, Nugues AL, Schoeneberger H, et al. Identification of a novel synergistic induction of cell death by Smac mimetic and HDAC inhibitors in acute myeloid leukemia cells. *Cancer Lett*. 2015 May 28. [Epub ahead of print]. PMID: 26028172.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.