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CERTIFICATE OF ANALYSIS

Product name: **Necrostatin-1**

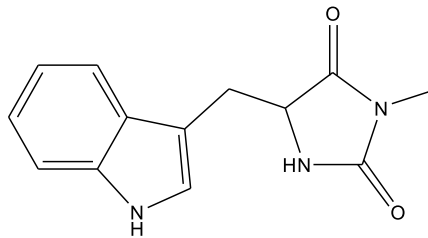
Cat. number: **VD-AIH-0124**

CAS Number: **4311-88-0**

Lot number: **VD12-000026**

Personal protective equipment

- Lab coat.
- Safety glasses.



Product Specification

Formula:	C ₁₃ H ₁₃ N ₃ O ₂
MW:	259.3
Purity:	>=99% by HPLC
Appearance:	Yellow solid
Solubility:	DMSO or MeOH.
Storage:	+2°C to +8°C. Protect from light.
Synonyms:	Nec-1; Necroptotic Inhibitor

Product Description:

A cell-permeable, potent, and selective blocker of necroptosis (EC₅₀ = 494 nM in FADD-deficient Jurkat cells treated with TNF- α), a nonapoptotic necrotic cell death pathway mediated by death-domain receptors (DRs) that offers neuroprotection in a murine model of ischemic brain injury. Exhibits no effect on DR-induced apoptosis. Nec-1 target appears to be a critical common necroptotic step upstream of execution events and downstream of DRs. ATP-competitive death domain receptor-associated adaptor kinase (RIP1) allosteric inhibitor (EC₅₀ = 182 nM). Blocks non-apoptotic cell death via inhibition of a specific cellular pathway, necroptosis, which leads to necrosis (EC₅₀ = 494 nM). Reduces ischemic brain injury in a mouse model of stroke.

Product Reference:

1.Degterev, A., et al. 2008. Nat. Chem. Biol. in press.

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