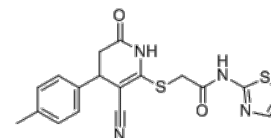


Product Name : Necrostatin-34
Cat. No. : PC-73007
CAS No. : 375835-43-1
Molecular Formula : C₁₈H₁₆N₄O₂S₂
Molecular Weight : 384.48
Target : RIP kinase
Solubility : 10 mM in DMSO



Biological Activity

Necrostatin-34 (Nec-34) is a novel small molecule inhibitor of **RIPK1 kinase**, inhibits TNF α -induced necroptosis in FADD-deficient Jurkat cells with IC₅₀ of 0.67 μ M.

Nec-34 effectively inhibited necroptosis induced by the addition of AP20187 and zVAD.fmk, inhibited the dimerization-induced RIPK1 activation as examined by phosphorylation of Ser166 (p-S166) of RIPK1, a biomarker for RIPK1 activation. Nec-34 showed no effect on the early activation signatures of NF- κ B and MAPK pathways, including phosphorylation of IKK α / β , p65, p38, JNK, MK2, I κ B α , and degradation of I κ B α .

Nec-34 inhibited the activity of RIPK1 (IC₅₀=5.5 μ M, 111 mM ATP) and disrupted the formation of complex II.

Nec-34 inhibits RIPK1 kinase through a mechanism distinct from that of Nec-1s.

References

Huyan Meng, et al. *Cell Discov.* 2021 Jun 1;7(1):41.

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

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