

Product Data Sheet

Product Name: Necrostatin-34

Cat. No.: GC62316

Chemical Properties

Cas. No. 375835-43-1

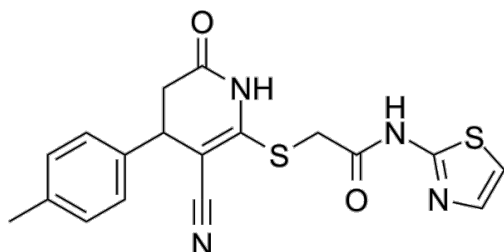
Formula $C_{18}H_{16}N_4O_2S_2$ M.Wt 384.48

Solubility DMSO : 125 mg/mL (325.11 mM; Storage 4°C, protect from light
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Necrostatin-34 (Nec-34), a RIPK1 kinase inhibitor, stabilizes RIPK1 kinase in an inactive conformation by occupying a distinct binding pocket in the kinase domain[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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Necrostatin-34 (Nec-34) exhibits IC₅₀ values of 667 nM and 134 nM for TNF α in FADD def-Jurkat cells and L939 cells, respectively[1]. Necrostatin-34 (Nec-34, 10 μ M) inhibits the dimerization-induced RIPK1 activation as examined by phosphorylation of Ser166 (p-S166) of RIPK1, a biomarker for RIPK1 activation[1]. Necrostatin-34 (Nec-34) may block TNF α -induced complex II formation by inhibiting the activation of RIPK1 kinase[1].

[1]. Huan Meng, et al. Discovery of a cooperative mode of inhibiting RIPK1 kinase. Cell Discov. 2021 Jun 1;7(1):41.

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