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Necrostatin-1s

5 mg

For Research Use Only. Not for Use in Diagnostic Procedures.

Background

Necrostatin-1s, also known as Nec-1s or 7-Cl-O-Nec-1, is a potent and selective inhibitor of necroptosis. This analog of Necrostatin-1 (Nec-1) has been shown to be a specific receptor-interacting protein kinase (RIPK) 1 inhibitor that is metabolically more stable than the other variants (1). Research studies have found that Nec-1s is more selective than Nec-1 and Nec-1i (inactive variant) due to the fact that both molecules have an inhibitory affect on indoleamine 2,3-dioxygenase (IDO), a potent immunosuppressive molecule (2). Evidence also suggests that Nec-1s is around two-times more effective at RIPK1 inhibition than Nec-1 (IC₅₀ = 210 nM vs. 494 nM) (1).

Molecular Formula

C₁₃H₁₂ClN₃O₂

Molecular Weight

277.7 g/mol

Purity

>98%

CAS

852391-15-2

Solubility

Soluble in DMSO at 25 mg/ml.

Storage

Store lyophilized at room temperature, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

Necrostatin-1s is supplied as a lyophilized powder. For a 20 mM stock, reconstitute 5 mg of powder in 900 µl of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Mikuš, P. et al. (2018) *Molecules* 23, .
2. Takahashi, N. et al. (2012) *Cell Death Dis* 3, e437.

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