Nec-4

Cat. No.: HY-18900

CAS No.: 1041644-43-2

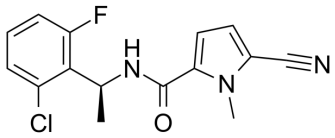
Molecular Formula: $C_{15}H_{13}ClFN_3O$

Molecular Weight: 305.73

Target: RIP kinase

Pathway: Apoptosis

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nec-4, a tricyclic derivative, is a potent receptor interacting protein 1 (RIP1) inhibitor, with an IC_{50} of 2.6 μM, K_i of 0.46 μM.
IC_{50} & Target	IC50: 2.6 μM (RIP1)[1].
In Vitro	Nec-4 (compound 9) is a slightly better competitor than 7 with a lower K_i value that is similar to R-3. Nec-4 is again a slightly better competitor than Rac-3 with K_i and IC_{50} values comparable to 7 (Nec-4: IC_{50}=2.6±0.1 μM, K_i=0.46±0.05 μM; 7: IC_{50} =10.7±1.8 μM, K_i=4.5±0.9 μM). Overall, all three compounds cross-compete with each other but Nec-4 is able to more effectively displace both 20 and 26 in comparison to the parent compounds Rac-3 and 7, respectively. This suggests that Nec-4 binding likely significantly overlaps with both the Nec-1 and the Nec-3 binding sites. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Maki JL, et al. Fluorescence polarization assay for inhibitors of the kinase domain of receptor interacting protein 1. Anal Biochem. 2012 Aug 15;427(2):164-74.

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