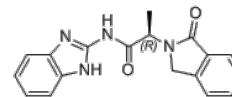


Product Name : Compound 919278
Cat. No. : PC-35532
CAS No. : 2189366-77-4
Molecular Formula : C₁₈H₁₆N₄O₂
Molecular Weight : 320.352
Target : Cyclin-dependent Kinase (CDK)
Solubility : 10 mM in DMSO



Biological Activity

Compound 919278 is a specific inhibitor of **lymphotoxin β receptor (LTβR)**, (IC₅₀=0.169 μM), and TNF receptor superfamily member 12A (FN14)-dependent nuclear translocation of p52 (IC₅₀=0.167 μM) via inhibiting **CDK12/CCNK**.

Compound 919278 does not inhibit the TNF-α-mediated nuclear translocation of p65 (RelA).

Compound 919278 prevents the accumulation of NIK, selectively inhibits the noncanonical NF-κB pathway.

Compound 919278 prevents the LTβR- and FN14-dependent expression of MAP3K14 (which encodes NIK) as well as NIK accumulation by reducing phosphorylation of the carboxyl-terminal domain of RNA polymerase II.

Compound 919278 reduces the binding of both CDK12 and its associated protein CCNK with IC₅₀ of 30-60 nM, inhibits CDK12 cellular activity and reduces the phosphorylation of Ser2 on the RNA Pol II CTD.

Compound 919278 phenocopies the effect of CDK12 knockdown on DEGs.

References

Henry KL, et al. *Sci Signal*. 2018 Jul 31;11(541). pii: eaam8216.

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

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