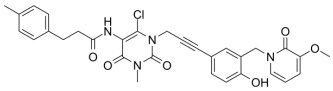
MLKL-IN-3

Cat. No.:	HY-151541
CAS No.:	3031406-27-3
Molecular Formula:	$C_{31}H_{29}ClN_4O_6$
Molecular Weight:	589.04
Target:	Mixed Lineage Kinase; Necroptosis
Pathway:	MAPK/ERK Pathway; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MLKL-IN-3 (compound 66) is a potent MLKL (Mixed lineage kinase domain-like protein) inhibitor. MLKL-IN-3 inhibits necroptosis in HT-29 cells and acts downstream of MLKL phosphorylation, with EC_{50} of 31 nM[1]. MLKL-IN-3 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.
In Vitro	MLKL-IN-3 (compound 66) (1 μM, 24 h) inhibits the translocation of MLKL to cell membranes in HT-29 cells[1]. MLKL-IN-3 does not affect the phosphorylation status of RIPK1 and MLKL[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	MLKL-IN-3 (compound 66) shows T1/2 over 48 h and more than 150-fold lower reaction rates with glutathione (GSH), which potentially decreased their off-target effects and cell toxicity[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cui B, et al. Discovery of a New Class of Uracil Derivatives as Potential Mixed Lineage Kinase Domain-like Protein (MLKL) Inhibitors. J Med Chem. 2022 Oct 13;65(19):12747-12780.

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