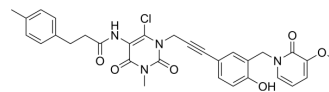


MLKL-IN-3

Cat. No.:	HY-151541
Molecular Formula:	C ₃₁ H ₂₉ ClN ₄ O 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 T _{1/2} 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.

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

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