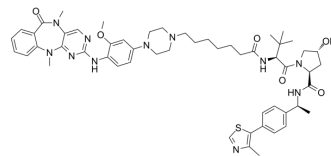


PPM-3

Cat. No.:	HY-149616
CAS No.:	3032388-42-1
Molecular Formula:	C ₅₄ H ₆₉ N ₁₁ O ₆ S
Molecular Weight:	1000.26
Target:	PROTACS; ERK
Pathway:	PROTAC; MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PPM-3 is a potent and selective PROTAC ERK5 degrader, with an IC ₅₀ of 62.4 nM. PPM-3 did not influence tumor cell growth directly. PPM-3 influences tumor development by affecting the differentiation of macrophages ^[1] .
IC₅₀ & Target	ERK5 62.4 ± 18. nM (IC ₅₀)
In Vitro	PPM-3 (200 nM, 0-72 h, A375 cells)-mediated degradation of ERK5 begins within 2-4 h and that degradation peaks at 12 h and lasts at least 72 h ^[1] . PPM-3 (0-1 μM, 12 h) shows ERK5 degradation activity in H1975, HepG2, MDA-MB-231, PC-3, HCT116, and A375 cancer cell lines, with DC ₅₀ values of 11.5±2.5, 13.7±8.2, 22.7±13.3, 23.5±10.3, 5.6±1.9, and 41.4±22.3 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pan P, et al. Design, Synthesis, and Biological Evaluation of Proteolysis-Targeting Chimeras as Highly Selective and Efficient Degraders of Extracellular Signal-Regulated Kinase 5. *J Med Chem.* 2023 Oct 12;66(19):13568-13586.

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

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