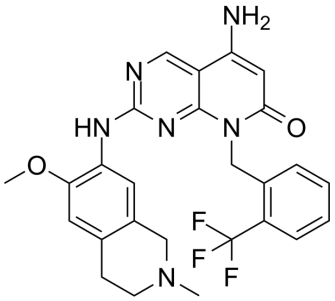
HPK1-IN-43

Cat. No.:	HY-161335
Molecular Formula:	$C_{26}H_{25}F_3N_6O_2$
Molecular Weight:	510.51
Target:	MAP4K; Interleukin Related; IFNAR
Pathway:	MAPK/ERK Pathway; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HPK1-IN-43 (compound 9f) is a HPK1 kinase inhibitor with the IC_{50} value of 0.32 nM. HPK1-IN-43 inhibits the phosphorylation of the downstream protein SLP-76 and enhances the secretion of interleukin-2 (IL-2) and interferon-γ (IFN-γ). HPK1-IN-43 can be used in cancer research[1].			
IC_{50} & Target	HPK1 0.32 nM (IC_{50})	SLP-76	IL-2	IFN-γ
In Vitro	HPK1-IN-43 (compound 9f) (0-100 nM, 1-18 h) inhibits phosphorylation of SLP76 in Jurkat and primary peripheral blood mononuclear cells (PBMC), with IC_{50} values of 147.9 nM and 131.8 nM, respectively. HPK1-IN-43 promotes IL-2 and IFN-γ production in PBMCs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Qiu X, et al. Discovery of 5-aminopyrido[2,3-d]pyrimidin-7(8H)-one derivatives as new hematopoietic progenitor kinase 1 (HPK1) inhibitors. Eur J Med Chem. 2024 Apr 5;269:116310.

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