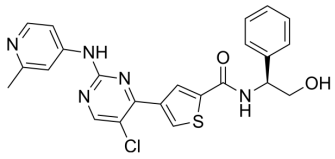
ERK1/2 inhibitor 10

Cat. No.:	HY-162460
Molecular Formula:	$C_{23}H_{20}ClN_5O_2S$
Molecular Weight:	465.96
Target:	ERK
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ERK1/2 inhibitor 10 (Compound 36c) is a potent ERK1/2 inhibitor (IC_{50}: 0.11/0.08 nM respectively). ERK1/2 inhibitor 10 inhibits ERK1/2 and blocks the phosphorylation expression of their downstream substrates p90RSK and c-Myc. ERK1/2 inhibitor 10 induces cell apoptosis and incomplete autophagy-related cell death. ERK1/2 inhibitor 10 shows potent antitumor efficacy against triple-negative breast cancer and colorectal cancer models harboring BRAF and RAS mutations[1].	
IC_{50} & Target	ERK1 0.11 nM (IC_{50})	ERK2 0.8 nM (IC_{50})

REFERENCES

[1]. Shuai W, et al. Structure-Guided Discovery and Preclinical Assessment of Novel (Thiophen-3-yl)aminopyrimidine Derivatives as Potent ERK1/2 Inhibitors. J Med Chem. 2024 Apr 25;67(8):6425-6455.

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