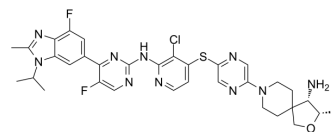


SHP2/CDK4-IN-1

Cat. No.:	HY-150609
CAS No.:	2924036-87-1
Molecular Formula:	C ₃₃ H ₃₅ ClF ₂ N ₁₀ OS
Molecular Weight:	693.21
Target:	Phosphatase; CDK; SHP2
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SHP2/CDK4-IN-1 (compound 10) is an orally active and potent SHP2 and CDK4 dual inhibitor, with IC ₅₀ values of 4.3 and 18.2 nM, respectively. SHP2/CDK4-IN-1 effectively induces G0/G1 arrest to prevent the proliferation of TNBC cell lines. SHP2/CDK4-IN-1 shows significant antitumor efficacy in the EMT6 syngeneic mouse model. SHP2/CDK4-IN-1 can be used for triple-negative breast cancer (TNBC) research ^[1] .
IC ₅₀ & Target	CDK4 18.2 ± 1.3 nM (IC ₅₀)

REFERENCES

[1]. Chen X, et al. Discovery of a Novel Src Homology-2 Domain Containing Protein Tyrosine Phosphatase-2 (SHP2) and Cyclin-Dependent Kinase 4 (CDK4) Dual Inhibitor for the Treatment of Triple-Negative Breast Cancer. *J Med Chem.* 2022 May 12;65(9):6729-6747.

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

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