PTP1B-IN-24

MedChemExpress

Cat. No.:	HY-161321	
CAS No.:	2221707-61-3	
Molecular Formula:	C ₂₂ H ₁₆ N ₂ O ₅ S	
Molecular Weight:	420.44	s of the
Target:	Phosphatase; Insulin Receptor; Akt	N H
Pathway:	Metabolic Enzyme/Protease; Protein Tyrosine Kinase/RTK; PI3K/Akt/mTOR	Ö Ö
Storage:	Please store the product under the recommended conditions in the Certificate of	
	Analysis.	

BIOLOGICAL ACTIVITY			
Description	PTP1B-IN-24 (Compound 9) is a reversible PTP1B inhibitor with an IC ₅₀ value of 1.4 μM, and PTP1B-IN-24 can enhance the thermal stability of PTP1B. PTP1B-IN-24 can restore PA- (HY-N0830) induced insulin resistance by increasing the phosphorylation levels of IRS1 and AKT ^[1] .		
IC ₅₀ & Target	Akt 1.4 μM (IC ₅₀)		
In Vitro	PTP1B-IN-24 (0-32 μM; 24 h) doesn't affect cell viability in LO2 cells. PTP1B-IN-24 (1-2 μM; 24 h) improves PA (0.4 mM; 24 h)- induced insulin resistance in HepG2 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]		
	Cell Line:	HepG2	
	Concentration:	1 μΜ; 2 μΜ	
	Incubation Time:	24 h	
	Result:	Enhanced the phosphorylated expression of IRS1 (Y632) and Akt (S473).	

REFERENCES

[1]. Zheng Y, et al. New chromone derivatives bearing thiazolidine-2,4-dione moiety as potent PTP1B inhibitors: Synthesis and biological activity evaluation. Bioorg Chem. 2024 Feb;143:106985.

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

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