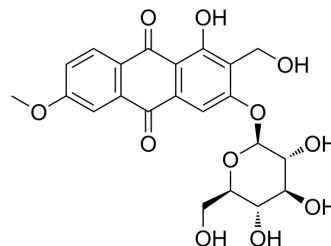


PTP1B-IN-21

Cat. No.:	HY-N10649
Molecular Formula:	C ₂₂ H ₂₂ O ₁₁
Molecular Weight:	462.4
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PTP1B-IN-21 is a selective inhibitor of protein tyrosine phosphatase 1B (PTP1B; IC ₅₀ =1.56 μM) over the highly homologous T-cell protein tyrosine phosphatase (TCPTP; IC ₅₀ >100 μM), which is a key target for type 2 diabetes inhibition ^[1] .
IC ₅₀ & Target	IC ₅₀ : 1.56 μM (PTP1B); >100 μM (TCPTP) ^[1]
In Vitro	PTP1B-IN-21 (compound 8) (0-100 μM; 15 min; 37 °C) with 5,6-dihydroxyl groups is more potent against protein tyrosine phosphatase 1B ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang Z, et al. Selective Inhibition of PTP1B by New Anthraquinone Glycosides from *Knoxia valerianoides*. *J Nat Prod*. 2022 Nov 18.

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

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