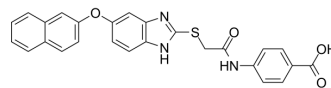


PTP1B-IN-18

Cat. No.:	HY-144717
CAS No.:	2848581-84-8
Molecular Formula:	C ₂₆ H ₁₉ N ₃ O ₄ S
Molecular Weight:	469.51
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-18 is an orally active complete mixed type protein tyrosine phosphatase 1B (PTP1B) inhibitor with a K _i of 35.2 μM. PTP1B-IN-18 can be used for type 2 diabetes research ^[1] .	
IC₅₀ & Target	k _i : 35.2 μM (PTP1B) ^[1]	
In Vivo	PTP1B-IN-18 (Compound 44; 100 mg/kg; p.o.; single administration) reduces 23% of the blood sugar level ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Female Wistar rats weighing 200-250 g (type 2 diabetic rat model) ^[1]
	Dosage:	100 mg/kg
	Administration:	Oral administration; single administration
	Result:	Showed hypoglycemic effect under physiological conditions.

REFERENCES

[1]. Mara Ibeth Campos-Almazán, et al. Design, synthesis, kinetic, molecular dynamics, and hypoglycemic effect characterization of new and potential selective benzimidazole derivatives as Protein Tyrosine Phosphatase 1B inhibitors. *Bioorg Med Chem.* 2021 Oct 15

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA