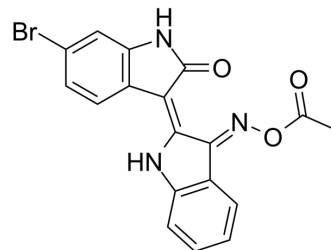


(E/Z)-BIO-acetoxime

Cat. No.:	HY-114903
CAS No.:	740841-15-0
Molecular Formula:	C ₁₈ H ₁₂ BrN ₃ O ₃
Molecular Weight:	398.21
Target:	GSK-3; CDK
Pathway:	PI3K/Akt/mTOR; Stem Cell/Wnt; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(E/Z)-BIO-acetoxime (GSK-3 Inhibitor X) is a potent and selective GSK-3 α/β inhibitor, with an IC ₅₀ of 10 nM. (E/Z)-BIO-acetoxime shows more than 200-fold selectivity over CDK5/p25, CDK2/cyclin A and CDK1/cyclin B (IC ₅₀ =2.4, 4.3, 63 μ M) ^[1] .			
IC₅₀ & Target	GSK-3 α 10 nM (IC ₅₀)	GSK-3 β 10 nM (IC ₅₀)	Cdk5/p25 2.4 μ M (IC ₅₀)	CDK2/cyclinA 4.3 μ M (IC ₅₀)
	CDK1/cyclinB 63 μ M (IC ₅₀)			
In Vitro	E/Z)-BIO-acetoxime (compound 13) shows more than 200-fold selectivity for GSK-3 α/β over CDK5/p25, CDK2/cyclin A and CDK1/cyclin B, with IC ₅₀ s of 0.01, 2.4, 4.3 and 63 μ M, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Meijer L, et, al. GSK-3-selective inhibitors derived from Tyrian purple indirubins. Chem Biol. 2003 Dec;10(12):1255-66.

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

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