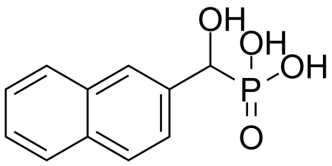
HNMPA

Cat. No.:	HY-101962
CAS No.:	132541-52-7
Molecular Formula:	$C_{11}H_{11}O_4P$
Molecular Weight:	238.18
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HNMPA is a membrane impermeable insulin receptor tyrosine kinase inhibitor. HNMPA inhibits serine and tyrosine autophosphorylation by the human insulin receptor. HNMPA has no effect on protein kinase C or cyclic AMP-dependent protein kinase activities[1][2]
In Vitro	HNMPA inhibits the phosphorylation of a synthetic peptide substrate composed of insulin receptor residues 1290-1319 on serines-1305/1306 by partially purified insulin receptors[1]. HNMPA blocks GABA-dependent insulin inhibition, and reduces neuronal firing after GABA application[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. K Baltensperger, et al. Catalysis of serine and tyrosine autophosphorylation by the human insulin receptor. Proc Natl Acad Sci U S A. 1992 Sep 1;89(17):7885-9.

[2]. Peter Kovacs, et al. In vivo electrophysiological effects of insulin in the rat brain. Neuropeptides. 2009 Aug;43(4):283-93.

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