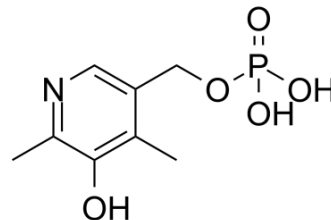


4-Deoxyriodoxine 5'-phosphate

Cat. No.:	HY-N2553		
CAS No.:	883-84-1		
Molecular Formula:	C ₈ H ₁₂ NO ₅ P		
Molecular Weight:	233.16		
Target:	LPL Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	4-Deoxyriodoxine 5'-phosphate is a Pyridoxal 5'-phosphate analogue and a sphingosine 1-phosphate (S1P) inhibitor. 4-Deoxyriodoxine 5'-phosphate inhibits ornithine decarboxylase activity with a K _i of 60 μM. 4-Deoxyriodoxine 5'-phosphate is a competitive inhibitor of the activation of glutamate apodecarboxylase by Pyridoxal 5'-phosphate (K _i of 0.27 μM) and strongly inhibits glutamate-dependent labeling of glutamate decarboxylase ^{[1][2][3]} .
IC₅₀ & Target	Sphingosine 1-phosphate (S1P) ^[1] Ornithine decarboxylase ^[2] Glutamate apodecarboxylase ^[3]

REFERENCES

- [1]. Mamoru Ohtoyo, et al. Scintillation Proximity Assay to Detect the Changes in Cellular Dihydrospingosine 1-Phosphate Levels. *Lipids*. 2016 Oct;51(10):1207-1216.
- [2]. M J Connor, et al. Epidermal Pyridoxal 5'-phosphate Depletion, Inhibition of DNA Synthesis, and Inhibition of the Expression of Ornithine Decarboxylase Activity by the Vitamin B-6 Antagonist 4'-deoxyriodoxine. *J Invest Dermatol*. 1983 Aug;81(2):136-9.
- [3]. D L Martin, et al. Glutamate-dependent Active-Site Labeling of Brain Glutamate Decarboxylase. *J Neurochem*. 1990 Aug;55(2):524-32.

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

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