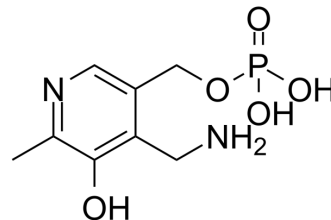


Pyridoxamine 5'-phosphate

Cat. No.:	HY-B1746
CAS No.:	529-96-4
Molecular Formula:	C ₈ H ₁₃ N ₂ O ₅ P
Molecular Weight:	248.17
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pyridoxamine 5'-phosphate is the active form of vitamin B6 bound to phosphoric acid. Pyridoxamine 5'-phosphate is the aminated form of pyridoxal 5'-phosphate hydrate (HY-W011727A) and as co-factor of a variety of enzymes central metabolite, potent antioxidant, vitamin B6 vitamer and enzyme substrate. Pyridoxamine 5'-phosphate can be interconverted with pyridoxal 5'-phosphate hydrate ^[1] .
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	Pyridoxamine 5'-phosphate can be transformed from pyridoxal 5'-phosphate. Purified His-tagged omega-TA CV2025 from <i>Chromobacterium violaceum</i> is capable of complete conversion of pyridoxal 5'-phosphate to pyridoxamine 5'-phosphate in the presence of (S)-α-methylbenzylamine (MBA) as the amine donor. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Seo JH, et, al. Necessary and sufficient conditions for the asymmetric synthesis of chiral amines using ω-aminotransferases. *Biotechnol Bioeng.* 2011 Feb;108(2):253-63.

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

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