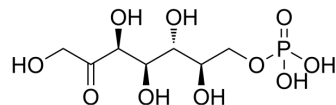


D-Sedoheptulose 7-phosphate

Cat. No.:	HY-113206	
CAS No.:	2646-35-7	
Molecular Formula:	C ₇ H ₁₅ O ₁₀ P	
Molecular Weight:	290.16	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



BIOLOGICAL ACTIVITY

Description	D-Sedoheptulose 7-phosphate is a common precursor for the heptoses of septacidin (group III) and hygromycin B (group IV). D-Sedoheptulose 7-phosphate can be converted to NDP-heptoses through similar biosynthetic pathways in those compounds [1].
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	<p>Sedoheptulose 7-phosphate can be converted to ADP-l-glycero-β-d-manno-heptose by SepB, SepL, and SepC, it involves in ADP-sugar in microbial natural product biosynthesis^[1].</p> <p>SepB is an S-7-P isomerase, SepL involves in the biosynthesis of heptoses of the core region of E. coli LPS, and they catalyze a four-reaction relay converting S-7-P into ADP-d-glycero-β-d-manno-heptose^[1].</p> <p>Septacidin and its analogs are potential anticancer and pain-relief agents^[1].</p> <p>Hygromycin B is an anthelmintic agent practically used in swine and poultry farming^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Tang W, et al. d-Sedoheptulose-7-phosphate is a common precursor for the heptoses of septacidin and hygromycin B. Proc Natl Acad Sci U S A. 2018 Mar 13;115(11):2818-2823.

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

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