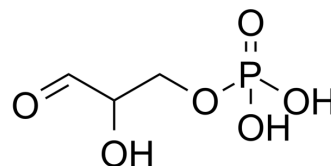


DL-Glyceraldehyde 3-phosphate

Cat. No.:	HY-113054
CAS No.:	591-59-3
Molecular Formula:	C ₃ H ₇ O ₆ P
Molecular Weight:	170.06
Target:	Acyltransferase; Bacterial; Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	DL-Glyceraldehyde 3-phosphate is an intermediate in several metabolic pathways, including glycolysis and gluconeogenesis. DL-Glyceraldehyde 3-phosphate is a potent inhibitor of the growth of <i>E. coli</i> . DL-Glyceraldehyde 3-phosphate is a competitive inhibitor of the acyltransferase ^{[1][2]} .
In Vitro	DL-Glyceraldehyde 3-phosphate is a time-dependent inhibitor of the cationic and anionic isozymes of aspartate aminotransferase purified from rat liver ^[1] . DL-Glyceraldehyde 3-phosphate, an analogue of Glycerol 3-phosphate, enters the cell via the sn-glycerol 3-phosphate transport system and is bactericidal. DL-Glyceraldehyde 3-phosphate is an inhibitor of sn-glycerol 3-phosphate transport ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In vivo, phosphatidylethanolamine and phosphatidylglycerol accumulation are inhibited to the same extent by the addition of DL-Glyceraldehyde 3-phosphate to a culture of <i>E. coli</i> ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. L Kopelovich, et al. Kinetics of the inhibition of aspartate aminotransferase isozymes by DL-glyceraldehyde 3-phosphate. *Eur J Biochem.* 1971 Jun 11;20(3):351-62.
- [2]. C T Tang, et al. L-Glyceraldehyde 3-phosphate, a bactericidal agent. *Antimicrob Agents Chemother.* 1977 Jan;11(1):147-53.

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

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