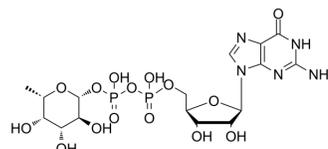


GDP-L-fucose

Cat. No.:	HY-134433
CAS No.:	15839-70-0
Molecular Formula:	C ₁₆ H ₂₅ N ₅ O ₁₅ P ₂
Molecular Weight:	589.34
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 250 mg/mL (424.20 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		1.6968 mL	8.4841 mL	16.9681 mL
	5 mM		0.3394 mL	1.6968 mL	3.3936 mL
	10 mM		0.1697 mL	0.8484 mL	1.6968 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

GDP-L-fucose is a nucleotide sugar that is a key substrate for the biosynthesis of fucose oligosaccharides, providing the fucose moiety for the oligosaccharides. The formation of GDP-L-fucose occurs through two pathways, the major *ab initio* metabolic pathway and the minor remedial metabolic pathway^[1].

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. Weiyang Wang, et al. Cell-free enzymatic synthesis of GDP-L-fucose from mannose. *AMB Express*. 2019 May 27;9(1):74.

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

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