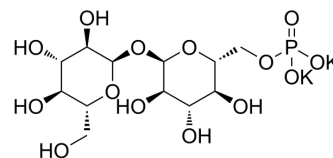


α,α -Trehalose 6-phosphate potassium

Cat. No.:	HY-131368
CAS No.:	136632-28-5
Molecular Formula:	C ₁₂ H ₂₁ K ₂ O ₁₄ P
Molecular Weight:	498.46
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 10 mg/mL (20.06 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.0062 mL	10.0309 mL	20.0618 mL
	5 mM		0.4012 mL	2.0062 mL	4.0124 mL
	10 mM		0.2006 mL	1.0031 mL	2.0062 mL

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

BIOLOGICAL ACTIVITY

Description

α,α -Trehalose 6-phosphate (Tre6P) potassium is an endogenous metabolite. α,α -Trehalose 6-phosphate is a 6-phosphate derivative of α,α' -trehalose. α,α -Trehalose 6-phosphate is rapidly converted to the pathway end product, α,α' -trehalose, through the action of Tre6P phosphatase (T6PP)^[1].

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. Liu, Chunliang, et al. An improved method for the large scale preparation of alpha,alpha'-trehalose-6-phosphate. Tetrahedron letters: The International Journal for the Rapid Publication of Preliminary Communications in Organic Chemistry, 2015, 56(23):3008-3010.

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

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