Data Sheet (Cat.No.T36081)



Trehalose 6-phosphate (potassium salt hydrate)

Chemical Properties

CAS No.:

Formula:

Molecular Weight:

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Trehalose is a natural non-reducing disaccharide found in plants, invertebrates, fungi,
	and bacteria.1,2In addition to roles as an energy source and stress protectant, trehalose
	can function as a signaling molecule.3,4Trehalose 6-phosphate is an intermediate in the
	biosynthesis of trehalose. It is generated from UDP-glucose and glucose 6-phosphate by
	trehalose 6-phosphate synthase (TPS or otsA).5In plants, changes in trehalose 6-
	phosphate levels positively correlate with diurnal changes in sucrose and may regulate
	diverse processes, including starch degradation and flowering.3,6

Solubility Information

Solubility	H2O: 50 mg/mL
30	(< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Walmagh, M., Zhao, R., and Desmet, T.Trehalose analogues: Latest insights in properties and biocatalytic productionInternational Journal of Molecular Sciences16(6)13729-13745(2015)

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