

Trehalose 6-phosphate (potassium salt hydrate) Biochemical

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CATALOG #
AAA227105

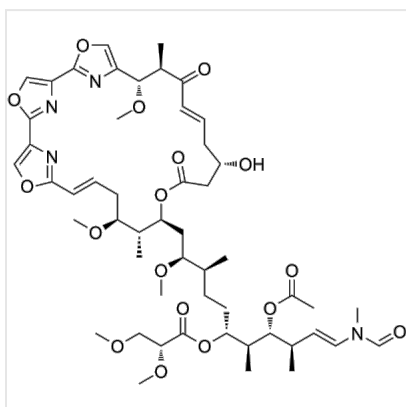
PRODUCT SYNONYMS

Trehalose 6-phosphate (potassium salt hydrate); Trehalose 6-phosphate (potassium salt hydrate) biochemical

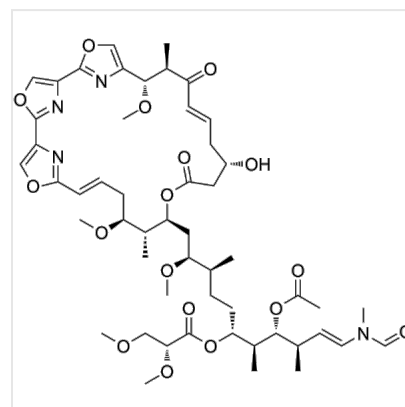
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	H ₂ O: 50 mg/mL <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Mycalolide B, CAS 122752-21-0



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ADDITIONAL INFORMATION

Related Product Information for Trehalose 6-phosphate (potassium salt hydrate) biochemical

Trehalose is a natural non-reducing disaccharide found in plants, invertebrates, fungi, and bacteria.^{1,2}In addition to roles as an energy source and stress protectant, trehalose can function as a signaling molecule.^{3,4}Trehalose 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}

References

1. Hori M, et al. Mycalolide-B, a novel and specific inhibitor of actomyosin ATPase isolated from marine sponge. FEBS Lett. 1993;322(2):151-154.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.