

Poly(styrenyl acetal trehalose)

Chemical Properties

CAS No. :

Formula: C₂₃H₃₄O₁₁

Molecular Weight:

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

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Poly(styrenyl acetal trehalose) (pSAT) is synthesized by linking trehalose side chains to a polystyrene backbone through acetal bonds. This compound stabilizes various proteins and enzymes against temperature fluctuations without triggering an innate immune response. Additionally, Poly(styrenyl acetal trehalose) can be utilized in synthesizing protein-polymer conjugates, thereby reducing the renal clearance of active molecules.
Targets(IC50)	Others
In vivo	When administered to mice, poly(styrenyl acetal trehalose) at a dose of 10 mg/kg intravenously as a single dosage does not cause liver or kidney damage and is considered safe regarding acute toxicity. Additionally, at a dosage of 1 mg/kg delivered intraperitoneally twice (on day 0 and day 14), it does not lead to increased levels of pro-inflammatory cytokines and IgG.

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