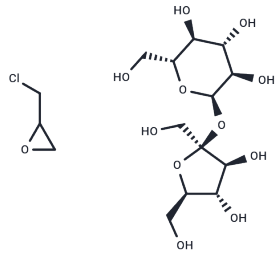
Data Sheet (Cat.No.T40311)

TargetMol

Sucrose-epichlorohydrin copolymer

Chemical Properties



CAS No. : 26873-85-8

Formula: C15H27ClO12

Molecular Weight: 434.82

Storage: Keep away from moisture
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	Sucrose-epichlorohydrin copolymer (Polysucrose 400) is a high molecular weight polymer of sucrose co-polymerized with epichlorohydrin for density gradient separation of cells, cell membranes, organelles, and viral cells and protein liqudi-liquid phase separation (LLPS).
Targets(IC50)	Others
In vitro	Sucrose-epichlorohydrin copolymer is a macromolecular crowder that plays a pivotal role in promoting liquid-liquid phase separation (LLPS) of proteins. [1] Sucrose-epichlorohydrin copolymer is currently utilized in the isolation of serum and peripheral blood mononuclear cells (PBMC) from the whole blood of Parkinson's disease (PD) patients. [2]

Solubility Information

Solubility	H2O: 40 mg/mL (91.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2998 mL	11.499 mL	22.998 mL
5 mM	0.460 mL	2.2998 mL	4.5996 mL
10 mM	0.230 mL	1.1499 mL	2.2998 mL
50 mM	0.046 mL	0.230 mL	0.460 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Simon Alberti, et al. Considerations and Challenges in Studying Liquid-Liquid Phase Separation and Biomolecular Condensates. Cell. 2019 Jan 24;176(3):419-434.

Yang Q, Zhuang J, Cai P, Li L, Wang R, Chen Z. JKAP relates to disease risk, severity, and Th1 and Th17 differentiation in Parkinson's disease. Ann Clin Transl Neurol. 2021 Sep;8(9):1786-1795.

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