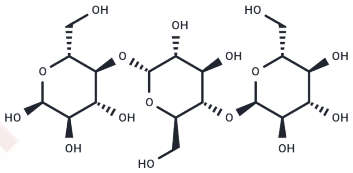
Data Sheet (Cat.No.T37769)

TargetMol

Amylose

Chemical Properties



CAS No. : 9005-82-7

Formula: C18H32O16

Molecular Weight: 504.438

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	Amylose is a polysaccharide composed of α-D-glucose units linked by α(1→4) glycosidic bonds, accounting for about 20% of the total amount of starch. Amylose spatial conformation curls into a helix and forms a blue complex with iodine, which is widely used in the food industry, and can be used in a variety of researches as a natural product and a biochemical reagent.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	0.5 M NaOH: 1.00 mg/mL (1.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9824 mL	9.912 mL	19.824 mL
5 mM	0.3965 mL	1.9824 mL	3.9648 mL
10 mM	0.1982 mL	0.9912 mL	1.9824 mL
50 mM	0.0396 mL	0.1982 mL	0.3965 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

Ovecka, et al. A sensitive method for confocal fluorescence microscopic visualization of starch granules in iodine stained samplesPlant Signal.Behav.7(9)1146-1150(2012)
Nishimura T, et al. Amylose engineering: phosphorylase-catalyzed polymerization of functional saccharide primers for glycobiomaterials. Wiley Interdiscip Rev Nanomed Nanobiotechnol. 2017 Mar;9(2):e1423.

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