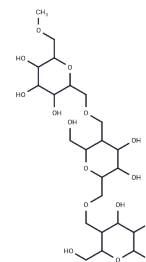


Pullulan, Viscosity(10%): 15-180 mPa.s

## Chemical Properties

CAS No. : 9057-02-7  
 Formula: C<sub>23</sub>H<sub>42</sub>O<sub>16</sub>  
 Molecular Weight: 574.573  
 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   | Pullulan is a water-soluble extracellular polysaccharide derived from <i>Aureobasidium pullulans</i> , a linear, unbranched natural polymer with a high concentration of hydroxyl groups and oral activity. It features a unique chain pattern of two $\alpha$ -(1→4) and one $\alpha$ -(1→6) glycosidic bonds in its maltose repeat units, and is widely used in biomedical and biochemical experiments. |
| Targets(IC50) | Others  |
| In vivo       | Pullulan (1, 5, and 10% dispersed in feed, oral administration, for 62 weeks) had no significant effect on survival rate and body weight in SD rats and showed no chronic toxicity. [1]   |

## Solubility Information

Solubility H<sub>2</sub>O: 40.00 mg/mL (69.62 mM), Sonication is recommended.  
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.7404 mL | 8.7022 mL | 17.4043 mL |
| 5 mM  | 0.3481 mL | 1.7404 mL | 3.4809 mL  |
| 10 mM | 0.174 mL  | 0.8702 mL | 1.7404 mL  |
| 50 mM | 0.0348 mL | 0.174 mL  | 0.3481 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

Kimoto T, et al. Safety studies of a novel starch, pullulan: chronic toxicity in rats and bacterial mutagenicity. Food Chem Toxicol. 1997 Mar-Apr;35(3-4):323-9.

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