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## Product Data Sheet

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Product Name: Cellulase  
Cat. No.: GC30228

### Chemical Properties

Cas. No. 9012-54-8

SMILES [Cellulase]

Formula

M.Wt

Solubility Water : 1 mg/mL ;DMSO : 1 mg/mL

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

Cellulase is an enzyme catalyzing the hydrolysis of certain linkages in cellulose and other carbohydrates.

Cellulase exhibits significant antibiofilm activity against *B. cepacia*, but does not have much action on its growth[1]. Cellulase and protease leads to the CST increasing in the case of activated sludge, but the effect of cellulase is lower than that of protease at the same concentration. Cellulase decreases the particle size of activated sludge. Cellulase has no significantly effect on sludge dewatering in terms of solid concentration after centrifugation[2].

[1]. Rajasekharan SK, et al. Cellulase inhibits *Burkholderia cepacia* biofilms on diverse prosthetic materials. *Pol J Microbiol.* 2013;62(3):327-30. [2]. Pei HY, et al. Effect of protease and cellulase on the characteristic of activated sludge. *J Hazard Mater.* 2010 Jun 15;178(1-3):397-403.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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