

## Glucose oxidase

## Chemical Properties

CAS No. : 9001-37-0

Formula:

Molecular Weight:

Store at low temperature

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

Actual storage temperature shall be subject to the COA.

## Glucose oxidase

## Biological Description

Description	Glucose oxidase, an enzyme extracted from the fungus <i>Aspergillus niger</i> , is an important industrial enzyme in the food industry and is widely used in the deoxygenation of foods such as wine, beer, fruit juice, milk powder, and in the improvement of flour and prevention of browning of foods, etc. It has antioxidant and potential anticancer activities.
Targets(IC50)	Endogenous Metabolite
In vitro	Glucose oxidase has many applications in industrial production, including improving color and flavor, increasing the durability of food ingredients, removing glucose from dried eggs, and eliminating oxygen from various juices and beverages[1].

## Solubility Information

Solubility	H2O: 247.5 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

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Leskovac V, et al. Glucose oxidase from *Aspergillus niger*: the mechanism of action with molecular oxygen, quinones, and one-electron acceptors. *Int J Biochem Cell Biol*. 2005;37(4):731-750.

Wang M, et al. Recent Advances in Glucose-Oxidase-Based Nanocomposites for Tumor Therapy. *Small*. 2019;15(51):e1903895.

Konishi T, et al. Safety evaluation of glucose oxidase from *Penicillium chrysogenum* [published correction appears in *Regul Toxicol Pharmacol*. 2013 Aug;66(3):300]. *Regul Toxicol Pharmacol*. 2013;66(1):13-23.

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