

## Superoxide dismutase

## Chemical Properties

CAS No. : 9054-89-1

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.

## Biological Description

Description	Superoxide dismutase (SOD), an enzyme that alternatively catalyzes the disproportionate decomposition of superoxide anion radicals (O <sub>2</sub> <sup>-</sup> ) to O <sub>2</sub> and H <sub>2</sub> O <sub>2</sub> , is an important antioxidant defense mechanism that effectively reduces pro-inflammatory cytokines and inhibits neutrophil infiltration into sites of tissue damage.
Targets(IC50)	Others,Antioxidant

## Solubility Information

Solubility	H <sub>2</sub> O: 5 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Wang F, Zhang YQ. Bioconjugation of silk fibroin nanoparticles with enzyme and Peptide and their characterization. Adv Protein Chem Struct Biol. 2015;98:263-91.

Maral J, Puget K, Michelson AM. Comparative study of superoxide dismutase, catalase and glutathione peroxidase levels in erythrocytes of different animals. Biochem Biophys Res Commun. 1977 Aug 22;77(4):1525-35.

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