

Superoxide Dismutase (SOD)

Superoxide dismutase (SOD, EC 1.15.1.1) is an enzyme that alternately catalyzes the dismutation (or partitioning) of the superoxide radical into either ordinary molecular oxygen or hydrogen peroxide. SOD is a type of metalloenzyme, with the physiological functions of anti-oxidation, anti-aging, and improving immunity.

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Applications of SOD

- SOD is a key ingredient in medicine, cosmetic materials, nutritional products, and antioxidants.
- SOD is widely used for adjusting endocrine system and immunity enhancement.
- SOD has multiple pharmacological activities, used in the ameliorating cis-platinum-induced nephrotoxicity and the treatment of urinary tract inflammatory disease.
- SOD has potent anti-inflammatory activity, supporting the treatment of chronic inflammation in colitis.
- SOD is known to reverse fibrosis, possibly through de-differentiation of myofibroblasts back to fibroblasts, and is used to reduce fibrosis following radiation for breast cancer.
- SOD is integrated in cosmetics to reduce free radical damage to the skin and has the anti-aging effect.



Creative Enzymes® SOD

Food Grade Raw Materials

Cat No.	Product	Activity	Source
NATE-1868	Native Plant Superoxide Dismutase	5,000 U/g	Cactus
NATE-1868	Native Plant Superoxide Dismutase	20,000 U/g	Cactus

Cosmetic and Pharmaceutical Grade Raw Material

Cat No.	Product	Activity	Source
NATE-1619	Native Silphium perfoliatum L. Superoxide Dismutase	5,000 U/mg	Silphium perfoliatum L.
NATE-1925	Native Porcine Superoxide Dismutase	4,500 U/mg	Porcine
NATE-0675	Native Bovine Superoxide Dismutase	7,500 U/mg	Bovine Erythrocytes

In addition to the above products, we also have research grade SOD from various sources.

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