

# Superoxide Dismutase from Human, Recombinant

Cat. No. NATE-1657

Lot. No. (See product label)

## Introduction

Description	Superoxide dismutase (SOD) catalyzes the dismutation of superoxide radicals to hydrogen peroxide
	and molecular oxygen. SOD plays a critical role in the defense of cells against the toxic effects of
	oxygen radicals. SOD competes with nitric oxide (NO) for superoxide anion (which reacts with NO to
	form peroxynitrite), thereby SOD promotes the activity of NO. SOD has also been shown to suppress
	apoptosis in cultured rat ovarian follicles, neural cell lines, and transgenic mice by preventing the
	conversion of NO to peroxynitrate, an inducer of apoptosis.

Superoxide dismutase [Cu-Zn]; EC 1.15.1.1; SOD1; SOD; ALS; ALS1; IPOA

#### **Product Information**

Species	Human
Source	E. coli
Form	Lyophilized powder
EC Number	EC 1.15.1.1
Molecular Weight	16.8 kDa (monomer), 33.6 kDa (homodimer)
Purity	> 95% by SDS-PAGE
Activity	~40,000 U/mg
Endotoxin Level	<0.1 ng/µg
Unit Definition	One unit is defined as the amount of enzyme that will cause a 50% reduction of the rate of WST-1 formazan formation.

# Usage and Packaging

**Reconstitution** Reconstitute in H2O to a concentration >100 ug/ml. The solution can then be diluted into other aqueous buffers.

## Storage and Shipping Information

*Storage* Store at -20°C