

SOD2/Mn-SOD Protein, Human

Cat. No.:	HY-P74538
Synonyms:	Superoxide Dismutase [Mn] Mitochondrial; SOD2
Species:	Human
Source:	E. coli
Accession:	P04179 (K25-K222)
Gene ID:	6648
Molecular Weight:	Approximately 25 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The subject, SOD2/Mn-SOD Protein, serves as a crucial enzyme in cellular defense by effectively neutralizing superoxide anion radicals, which are naturally generated within cells and can be toxic to biological systems. Operating as a manganese-containing superoxide dismutase, SOD2 plays a pivotal role in breaking down these radicals, thereby safeguarding cells from the harmful effects of oxidative stress. The enzymatic activity of SOD2 is essential for maintaining cellular homeostasis and protecting biological systems from potential damage caused by the accumulation of reactive oxygen species, highlighting its significance in cellular health and resilience.
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Caution: Product has not been fully validated for medical applications. For research use only.

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