SOD2/Mn-SOD Protein, Human (HEK293, His)

Cat. No.:	HY-P71073
Synonyms:	Superoxide Dismutase [Mn] Mitochondrial; SOD2
Species:	Human
Source:	HEK293
Accession:	P04179 (K25-K222)
Gene ID:	6648
Molecular Weight:	Approximately 25.0 kDa

PROPERTIES

AA Sequence	K H S L P D L P Y D Y G A L E P H I N A Q I M Q L H H S K H H A A Y V N N L N V T E E K Y Q E A L A K G D V T A Q I A L Q P A L K F N G G G H I N H S I F W T N L S P N G G G E P K G E L L E A I K R D F G S F D K F K E K L T A A S V G V Q G S G W G W L G F N K E R G H L Q I A A C P N Q D P L Q G T T G L I P L L G I D V W E H A Y Y L Q Y K N V R P D Y L K A I W N V I N W E N V T E R Y M A C K K
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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