

SOD2 Protein, Human, Recombinant (E. coli, His)

General Information

Synonyms:	SOD2;Superoxide Dismutase [Mn] Mitochondrial
Protein Construction:	Lys25-Lys222
Species:	Human
Expression Host:	E. coli
Accession:	P04179
Molecular Weight:	25 KDa (reducing condition)
AA Sequence:	Lys25-Lys222

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 50% Glycerol, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Superoxide Dismutase (SOD2) is a member of the iron/manganese superoxide dismutase family. SOD2 is a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. The SOD2 protein transforms toxic superoxide and a byproduct of the mitochondrial electron transport chain into hydrogen peroxide and diatomic oxygen. Genetic variation in SOD2 is associated with microvascular complications of diabetes type 6 (MVCD6), idiopathic cardiomyopathy (IDC), sporadic motor neuron disease, and cancer. SOD2 destroys superoxide anion radicals which are usually produced within the cells and which are toxic to biological systems.

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