

Recombinant Human SOD2/Mn-SOD Protein (His Tag)



Catalog Number:PKSH033072

Note: Centrifuge before opening to ensure complete recovery of vial contents.

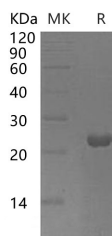
Description

Synonyms	Superoxide Dismutase [Mn] Mitochondrial;SOD2
Species	Human
Expression Host	E.coli
Sequence	Lys25-Lys222
Accession	P04179
Calculated Molecular Weight	23.7 kDa
Observed molecular weight	25 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 100mM NaCl, 50% Glycerol, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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 2 (MVC6); 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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