Datasheet for ABIN4370450

SOD2 Protein (AA 1-222) (His tag)

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Overview

Quantity:	50 µg
Target:	SOD2
Protein Characteristics:	AA 1-222
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOD2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SOD2/Mn-SOD (N-6His)
Sequence:	MHHHHHHDDD DKKHSLPDLP YDYGALEPHI NAQIMQLHHS KHHAAYVNNL NVTEEKYQEA LAKGDVTAQI ALQPALKFNG GGHINHSIFW TNLSPNGGGE PKGELLEAIK RDFGSFDKFK EKLTAASVGV QGSGWGWLGF NKERGHLQIA ACPNQDPLQG TTGLIPLLGI DVWEHAYYLQ YKNVRPDYLK AIWNVINWEN VTERYMACKK
Characteristics:	Recombinant Human Superoxide Dismutase [Mn] Mitochondrial/SOD2 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Lys222) of Human SOD2 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	SOD2
Alternative Name:	SOD2 (SOD2 Products)
Sub Type:	Fusionprotein
Background:	Superoxide Dismutase (SOD2) is a number 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. Alternative Names: Superoxide Dismutase [Mn] Mitochondrial, SOD2
Molecular Weight:	23.7 kDa
UniProt:	P04179
Pathways:	Sensory Perception of Sound, Transition Metal Ion Homeostasis, Negative Regulation of intrinsic apoptotic Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris,100 mM NaCl,50 % glycerol, pH 8.0.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months