Datasheet for ABIN7319047

SOD2 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	SOD2
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOD2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SOD2/Mn-SOD Protein (His Tag, Human Cells)
Sequence:	Lys25-Lys222
Characteristics:	Recombinant Human Superoxide Dismutase [Mn] Mitochondrial is produced by our Mammalian expression system and the target gene encoding Lys25-Lys222 is expressed with a 6His tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	SOD2
Alternative Name:	SOD2/Mn-SOD (SOD2 Products)
Background:	Background: Superoxide Dismutase (SOD2) belongs to the iron/manganese superoxide dismutase family. SOD2 is a mitochondrial matrix protein that forms a homotetramer and binds

Target Details

	one manganese ion per subunit. SOD2 transforms toxic superoxide, a byproduct of the mitochondrial electron transport chain into hydrogen peroxide and diatomic oxygen. It is reported that oxidative stress plays an essential role in the development of breast cancer, while SOD2 is one of the primary enzymes that directly convert potential harmful oxidizing species to harmless metabolites. Synonym: Superoxide Dismutase [Mn] Mitochondrial, SOD2
Molecular Weight:	23.2 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:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris,150 mM NaCl, pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.