abcam

Product datasheet

Recombinant Human SOD2/MnSOD protein (His tag) ab245919

1 Image

Description

Product name	Recombinant Human SOD2/MnSOD protein (His tag)
Purity	> 90 % SDS-PAGE. Affinity Purified
Expression system	Escherichia coli
Accession	P04179
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MLSRAVCGTSRQLAPVLGYLGSRQKHSLPDLPYDYGALE PHINAQIMQLH HSKHHAAYVNNLNVTEEKYQEALAKGDVTAQIALQPALKF NGGGHINHSI FWTNLSPNGGGEPKGELLEAIKRDFGSFDKFKEKLTAAS VGVQGSGWGWL GFNKERGHLQIAACPNQDPLQGTTGLIPLLGIDVWEHAYYL QYKNVRPDY LKAIWNVINWENVTERYMACKK
Predicted molecular weight	25 kDa including tags
Amino acids	1 to 222
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab245919** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

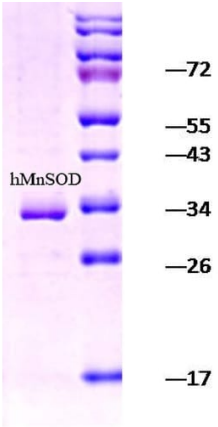
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Constituents: 0.79% Tris HCl, 0.87% Sodium chloride, 0.08% DTT, 10% Glycerol (glycerin, glycerine)

General Info

Function	Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.
Involvement in disease	Genetic variation in SOD2 is associated with susceptibility to microvascular complications of diabetes type 6 (MVCD6) [MIM:612634]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis.
Sequence similarities	Belongs to the iron/manganese superoxide dismutase family.
Post-translational modifications	Nitrated under oxidative stress. Nitration coupled with oxidation inhibits the catalytic activity.
Cellular localization	Mitochondrion matrix.

Images



SDS-PAGE - Recombinant Human SOD2/MnSOD protein (His tag) (ab245919)

SDS-PAGE analysis of Human MnSOD protein (His tag) (ab245919)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
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