Overview

Product name: Recombinant Human SOD2/MnSOD protein
Protein length: Full length protein

Description

Nature: Recombinant
Source: Escherichia coli
Amino Acid Sequence
Species: Human
Amino acids: 25 to 222

Specifications

Our Abpromise guarantee covers the use of ab82656 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
- Western blot

Purity
- > 95% SDS-PAGE.

Form
- Lyophilised

Preparation and Storage

Stability and Storage
- Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
- pH: 7.00
- Constituent: 0.476% HEPES

Reconstitution
- Reconstitute in 500µl of DW

General Info

Function
- Destroys superoxide anion radicals which are normally produced within the cells and which are...
### 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
Nitration under oxidative stress. Nitration coupled with oxidation inhibits the catalytic activity.

### Cellular localization
Mitochondrion matrix.

### Images

![SDS-PAGE - Recombinant Human SOD2/MnSOD protein (ab82656)](ab82656 at 1µg on SDS-PAGE.)

**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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- We investigate all quality concerns to ensure our products perform to the highest standards

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