abcam

Product datasheet

Recombinant human Superoxide Dismutase 1 protein (Active) ab112193

4 References 1 图像

描述

产品名称 重组人Superoxide Dismutase 1蛋白(Active)

生物活性 This protein is fully biologically active when compared to standard. Activity tests were carried

using ab65354.

The activity assay kit showed that the calculated activity was ~40,000 U/mg.

纯**度** > 95 % SDS-PAGE.

> 95% SDS-PAGE. The Cu/Zn SOD is purified by proprietary chromatographic techniques.

表达系统 Escherichia coli

Accession P00441

蛋白长度 Full length protein

无动物成分 No

性质 Recombinant

种属 Human 预**测分子量** 17 kDa

技术指标

Our Abpromise quarantee covers the use of ab112193 in the following tested applications.

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

应**用** SDS-PAGE

Functional Studies

形式 Lyophilized

补充说明 This product is manufactured by BioVision, an Abcam company and was previously called 4802

Superoxide Dismutase (SOD), human recombinant. 4802-100 is the same size as the 100 μg

size of ab112193.

Endotoxin Levels: <0.1 ng/mg.

制备和贮存

稳定性和存储 Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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pH: 7.40

Constituents: 10.269% Trehalose, 0.727% Dibasic monohydrogen potassium phosphate, 0.248% Monobasic dihydrogen potassium phosphate

This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

功能

Destroys radicals which are normally produced within the cells and which are toxic to biological

systems.

疾病相关 Defects in SOD1 are the cause of amyotrophic lateral sclerosis type 1 (ALS1) [MIM:105400].

ALS1 is a familial form of amyotrophic lateral sclerosis, a neurodegenerative disorder affecting upper and lower motor neurons and resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology of amyotrophic lateral sclerosis is likely to be multifactorial, involving both genetic and environmental factors. The disease is inherited in 5-

10% of cases leading to familial forms.

序列相似性 Belongs to the Cu-Zn superoxide dismutase family.

翻译后修饰 Unlike wild-type protein, the pathogenic variants ALS1 Arg-38, Arg-47, Arg-86 and Ala-94 are

polyubiquitinated by RNF19A leading to their proteasomal degradation. The pathogenic variants

ALS1 Arg-86 and Ala-94 are ubiquitinated by MARCH5 leading to their proteasomal

degradation.

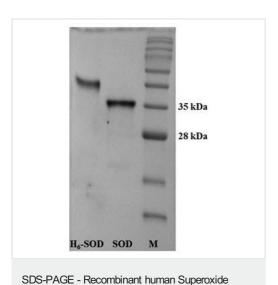
The ditryptophan cross-link at Trp-33 is reponsible for the non-disulfide-linked homodimerization. Such modification might only occur in extreme conditions and additional experimental evidence is

required.

细胞定位 Cytoplasm. The pathogenic variants ALS1 Arg-86 and Ala-94 gradually aggregates and

accumulates in mitochondria.

图片



Dismutase 1 protein (Active) (ab112193)

20 ug of non-reduced ab112193 on SDS-PAGE, stained with Coomassie Blue after protein migration.

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

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