

Recombinant Human SUOX, His-tagged

Cat. No. SUOX-193H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SuOX protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	80-545aa
Description	Sulfite oxidase is a homodimeric protein localized to the intermembrane space of mitochondria. Each subunit contains a heme domain and a molybdopterin-binding domain. The enzyme catalyzes the oxidation of sulfite to sulfate, the final reaction in the oxidative degradation of the sulfur amino acids cysteine and methionine. Sulfite oxidase deficiency results in neurological abnormalities which are often fatal at an early age. Alternative splicing results in multiple transcript variants encoding identical proteins.
Form	Liquid, In Phosphate buffered saline (pH7.4) containing 30% glycerol, 1mM DTT
Molecular Mass	53.9kDa (489aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSESTHIYT KEEVSSHTSP ETGIWVTLGS EVFDVTEFVD LHPGGPSKLM LAAGGGLEPF WALYAVHNQSHVRELLAQYK IGELNPEDKV APTVETSDPY ADDPVRHPAL KVNSQRPFNA EPPPELLTEN YITPNPIFFT RNHLPVPNLD PDTYRLHVVGAPGGQSLSL S LDDLHNFPRY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EITVTLQCAG NRRSEMTQVK EVKGLEWRTG AISTARWAGA RLCDVLAQAG
 HQLCETEAHV CFEGLDSDPTGTAYGASIP L ARAMDPEAEV LLAYEMNGQP
 LPRDHGFPVR VVVPGVVGAR HVKWLGRVSV QPEESYSHWQ RRDYKGFSPS
 VDWETVDFDSAPSIQELPVQ SAITEPRDGE TVESGEVTIK GYAWSGGGRA
 VIRVDVSLDG GLTWQVAKLD GEEQRPRKAW AWRLWQLKAP
 VPAGQKELNIVCKAVDDGYN VQPDTVAPIW NLRGVLSNAW HRVHVYVSP

Purity > 90% by SDS - PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name SUOX sulfite oxidase [Homo sapiens (human)]

Official Symbol SUOX

Synonyms SUOX; sulfite oxidase; sulfite oxidase, mitochondrial; NP_000447.2; EC 1.8.3.1; NP_001027558.1; NP_001027559.1

Gene ID 6821

mRNA Refseq NM_000456

Protein Refseq NP_000447

MIM 606887

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UniProt ID	P51687
Chromosome Location	12q13.2
Pathway	Degradation of cysteine and homocysteine; Metabolism of amino acids and derivatives; Sulfur amino acid metabolism
Function	electron carrier activity; heme binding; molybdenum ion binding; molybdopterin cofactor binding

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