

## Recombinant Human SUOX, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human SuOX protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	80-545aa
<b>Description</b>	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.
<b>Form</b>	Liquid, In Phosphate buffered saline (pH7.4) containing 30% glycerol, 1mM DTT
<b>Molecular Mass</b>	53.9kDa (489aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSESTHIYT KEEVSSHTSP ETGIWVTLGS EVFDVTEFVD LHPGGPSKLM LAAGGGLEPF WALYAVHNQSHVRELLAQYK IGELNPEDKV APTVETSDPY ADDPVRHPAL KVNSQRPFNA EPPPELLTEN YITPNPIFFT RNHLPVPNLD PDTYRLHVVGAPGGQSLSL S LDDLHNFPRY

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

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