

**SUOX, 80-545aa, Human, His tag, E.coli**

**Cat.NO.: TP04099**

3th Edition

**Synonyms:**Sulfite oxidase, EC 1.8.3.1

**Description:**SuOX also known as sulfite oxidase. SuOX is a homodimeric protein localized to the intermembrane space of mitochondria. Each subunit contains a heme domain and a molybdopterin-binding domain. This enzyme catalyzes the oxidation of sulfite to sulfate, the final reaction in the oxidative degradation of the sulfur amino acids cysteine and methionine. SuOX deficiency results in neurological abnormalities which are often fatal at an early age. Recombinant human SuOX protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid, In Phosphate buffered saline (pH7.4) containing 30% glycerol, 1mM DTT

**Molecular Weight:**53.9kDa (489aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSESTHIYTKEEVSSHTSPETGIWVTLGSEVFDVTEFVDLHPGGPSKMLLAAGG  
PLEPFWALYAVHNQSHVRELLAQYKIGELNPEDKVAPTIVTSDPYADDPVRHPALKVNSQRPFNAEPPPELLTENYI  
TPNPIFFTRNHLVVPNLDPDITYRLHVVGAPGGQSLSLDLHNFPRYEITVTLQCAGNRRSEMTQVKEVKGLEWR  
TGAISTARWAGARLCDVLAQAGHQLCETEAHVCFEGLDSDPTGTAYGASIPLARAMDPEAEVLLAYEMNGQPLPR  
DHGFPVRVVPGVVGARHVKWLGRVSVQPEESYSHWQRRDYKGFSPVDWETVDFDSAPSIQELPVQSAITEPR  
DGETVESGEVTIKGYAWSGGGRAVIRVDVSLDGGLTWQVAKLDGEEQRPRKAWAWRLWQLKAPVPAGQKELNIV  
CKAVDDGYNVQPDTVAPIWNLRGVLNAWHRVHVYVSP

**Purity:**> 95% by HPLC

**Concentration:**1mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.