Recombinant human SUOX protein

Catalog Number: ATGP3022

PRODUCT INFORMATION

Expression system
E.coli

Domain
80-545aa

UniProt No.
P51687

NCBI Accession No.
NP_000447.2

Alternative Names
Sulfite oxidase

PRODUCT SPECIFICATION

Molecular Weight
53.9 kDa (489aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Recombinant human SUOX protein

Catalog Number: ATGP3022

Amino acid Sequence

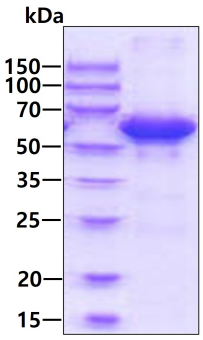
<MGSSHHHHHH SSGLVPRGSH MGS>ESTHIYT KEEVSSHTSP ETGIWVTLGS EVFDVTEFVD LHPGGPSKLM LAAGGPLEPF WALYAVHNQS HVRELLAQYK IGELNPEDKV APTVETSDPY ADDPVRHPAL KVNSQRPFNA EPPPELLTEN YITPNPIFFT RNHLPVPNLD PDTYRLHVVG APGGQSLSLS LDDLHNFPRY EITVTLQCAG NRRSEMTQVK EVKGLEWRTG AISTARWAGA RLCDVLAQAG HQLCETEAHV CFEGLDSDPT GTAYGASIPL ARAMDPEAEV LLAYEMNGQP LPRDHGFPVR VVVPGVVGAR HVKWLGRVSV QPEESYSHWQ RRDYKGFSPS VDWETVDFDS APSIQELPVQ SAITEPRDGE TVESGEVTIK GYAWSGGGRA VIRVDVSLDG GLTWQVAKLD GEEQRPRKAW AWRLWQLKAP VPAGQKELNI VCKAVDDGYN VQPDTVAPIW NLRGVLSNAW HRVHVYVSP

General References

Rudolph M.J., et al. (2003) Acta Crystallogr. D 59:1183-1191.
Kisker C., et al. (1997) Cell 91:973-983.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.