

32-6918: SUOX Human

Alternative Name : Sulfite Oxidase, EC 1.8.3.1, Sulfite oxidase, mitochondrial.

Description

Source: E.coli.

Sterile Filtered colorless solution.

Sulfite oxidase, also known as SUOX is a homodimeric protein localized to the intermembrane space of mitochondria. Each subunit includes a heme domain as well as a molybdopterin-binding domain. The SUOX enzyme catalyzes the oxidation of sulfite to sulfate, the last reaction in the oxidative degradation of the sulfur amino acids cysteine and methionine. In addition, the deficiency of SUOX results in neurological abnormalities which are often fatal at an early age.

SUOX Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 489 amino acids (80-545 a.a) and having a molecular mass of 53.9kDa. SUOX is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 5 µg / 25 µg

Purification : Greater than 90% as determined by SDS-PAGE.

Content : SUOX protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), 30% glycerol and 1mM DTT.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSESTHIYT KEEVSSHTSP ETGIWVTLGS EVFDVTEFVD LHPGGPSKLM LAAGGPLEPF WALYAVHNQS HVRELLAQYK IGENPEDKV APTVETSDPY ADDPVRHPAL KVNQRPFNA EPPPELLTEN YITPNPIFFT RNHLPVPNLD PDTYRLHVVG APGGQSLSL LDDLHNFPY EITVTLQCAG NRRSEMTQVK EVKGLEWRTG AISTARWAGA RLCDVLAQAG HQLCETEAHV CFEGLDSDPT GTAYGASIP LARAMDPEAEV LLAYEMNGQP LPRDHGFVVR VVPGVVGAR HVKWLGRVSV QPEESYSHWQ RRDYKGFSPS VDWETVDFDS APSIQELPVQ SAITEPRDGE TVESGEVTIK GYAWSGGGRA VIRVDVSLDG GLTWQVAKLD GEEQRPRKAW AWRLWQLKAP VPAGQKELNI VCKAVDDGYN VQPDTVAPIW NLRGVLSNAW HRVHVYVSP.