

32-13463: SUMF1 Human, Sf9

Alternative Name : SUMF1, AAPA3037, FGE, UNQ3037, Formylglycine-generating enzyme, C-alpha-formylglycine-generating enzyme 1, Sulfatase-modifying factor 1.

Description

Source: Sf9, Insect cells.

Sterile Filtered colorless solution.

SUMF1 is a part of the SUMF protein family. SUMF1 catalyzes the hydrolysis of sulfate esters by oxidizing a cysteine residue in the substrate sulfatase to an active site 3-oxoalanine residue called C-alpha-formylglycine. Mutations in this gene will cause multiple sulfatase deficiency meaning a lysosomal storage disorder.

SUMF1 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 347 amino acids (34-374.a.) and having a molecular mass of 38.1kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). SUMF1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 85.0% as determined by SDS-PAGE.

Content : SUMF1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

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 : SQEAGTGAGA GSLAGSCGCG TPQRPGAHGS SAAAHRYRSRE ANAPGPVPG E RQLAHSKMVP
IPAGVFTMGT DDPQIKQDGE APARRVTIDA FYMDAYEVSN TEFKFNST GYLTEAEKFG DSFVFEGMLS
EQVKTNIQQA VAAAPWWLPV KGANWRHPEG PDSTILHRPD HPVLHVSWND AVAYCTWAGK
RLPTEAEWEY SCRGG LHNRL FPWGNKLQPK GQHYANIWQG EFPVTNTGED GFQGTAPVDA
FPPNGYGLYN IVGNAWEWTS DWWTVHHSVE ETLNPKGPPS GKDRVKKGGS YMCHRSYCYR
YRCAARSQNT PDSSASNLGF RCAADRLPTM DHHHHHHH.