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Recombinant human Sulfatase Modifying Factor 1/SUMF1 protein

Catalog Number: ATGP3893

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

34-374aa

UniProt No.

O8NBK3

NCBI Accession No.

NP 877437.2

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

38.1 kDa (347aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

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

SUMF1, also known as sulfatase-modifying factor 1 isoform 1, is a Ca2+-binging member of the sulfatase-modifying factor family. This protein as soluble ER lumenal glycoprotein converts inactive sulfatases into an active form by transforming a catalytic site cysteine into a formylglycine residue. In the ER, it can exist as either



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a monomer, or a disulfide-linked homodimer or a heterodimer with SUMF2. The genetic defect of FGly formation caused by mutations in the SUMF1 gene results in inactive FGE, and subsequently multiple sulfatase deficiency, a lysosomal storage disorder. Recombinant Human SUMF1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

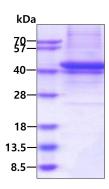
SQEAGTGAGA GSLAGSCGCG TPQRPGAHGS SAAAHRYSRE ANAPGPVPGE RQLAHSKMVP IPAGVFTMGT DDPQIKQDGE APARRVTIDA FYMDAYEVSN TEFEKFVNST GYLTEAEKFG DSFVFEGMLS EQVKTNIQQA VAAAPWWLPV KGANWRHPEG PDSTILHRPD HPVLHVSWND AVAYCTWAGK RLPTEAEWEY SCRGGLHNRL FPWGNKLQPK GQHYANIWQG EFPVTNTGED GFQGTAPVDA FPPNGYGLYN IVGNAWEWTS DWWTVHHSVE ETLNPKGPPS GKDRVKKGGS YMCHRSYCYR YRCAARSONT PDSSASNLGF RCAADRLPTM D<HHHHHHH>

General References

Preusser-Kunze A., et al, (2005) J. Biol. Chem. 280:14900-14910. Zito E., et al, (2005) EMBO Rep. 6:655-660.

DATA

SDS-PAGE



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

