Recombinant human Sulfatase Modifying Factor 1/SUMF1 protein

Catalog Number: ATGP1301

PRODUCT INFORMATION

Expression system
E.coli

Domain
91-374aa

UniProt No.
Q8NBK3

NCBI Accession No.
NP_877437

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

PRODUCT SPECIFICATION

Molecular Weight
34.1 kDa (304aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 20% glycerol, 2mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

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 (Sulfatase-modifying factor 1) belongs to the SuMF family. SuMF1 is an enzyme that catalyzes the hydrolysis of sulfate esters by oxidizing a cysteine residue in the substrate sulfatase to an active site 3-oxoalanine residue, which is also known as C-alpha-formylglycine. Mutations in this gene cause multiple sulfatase deficiency, a lysosomal storage disorder. Recombinant human SuMF1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

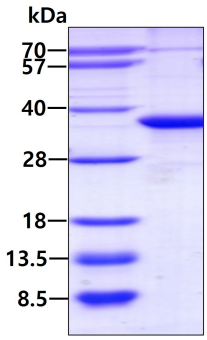
<MGSSHHHHHH SSGLVPRGSH> MVPIPAGVFT MGTDDPQIKQ DGEAPARRVT IDAFYMDAYE VSNTEFEKFV NSTGYLTEAE KFGDSFVFEG MLSEQVKTNI QQAVAAAPWW LPVKGANWRH PEGPDSTILH RPDHPVLHVS WNDAVAYCTW AGKRLPTEAE WEYSCRGGLH NRLFPWGNKL QPKGQHYANI WQGEFPVTNT GEDGFQGTAP VDAFPPNGYG LYNIVGNAWE WTSDWWTVHH SVEETLNPKG PPSGKDRVKK GGSYMCHRSY CYRYRCAARS QNTPDSSASN LGFRCAADRL PTMD

General References

Fraldi A., et al. (2007) Biochem J. 403(2):305-12.
Cosma MP., et al. (2003) Cell 113 (4): 445-56.

DATA

SDS-PAGE



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