

Recombinant Human Sulfatase Modifying Factor 1, His-tagged

Cat. No. SUMF1-1539H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SUMF1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	Human
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.
Form	Liquid. In 20mM Tris-HCl, pH8.0, 2M Urea, 20%Glycerol, 2mM DTT
Molecular Weight	34.1kDa (304aa)
Purity	> 85% by SDS - PAGE
Concentration	0.5mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MVPIAGVFT MGTDDPQIKQ DGEAPARRVT IDAFYMDAYE VSNTEFEK FV NSTGYLTEAE KFGDSFVFEG MLSEQVKTN I QQAVAAAPWW LPVKGANWRH PEGPDSTILH RPDHPVLHVS WNDAYAYCTW AGKRLPTEAE WEYSCRGGLH NRLFPWGNKL QPKGQHYANI WQGEFPVTNT

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GEDGFQGTAP VDAFPPNGYG LYNIVGNAWE WTSDWWTVHH SVEETLNPKG
PPSGKDRVKK GGSYMCHRSY CYRYRCAARS QNTPDSSASN LGFRCAADRL
PTMD

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Lysosome

GENE INFORMATION

Gene Name

SUMF1 sulfatase modifying factor 1 [Homo sapiens]

Official Symbol

SUMF1

Synonyms

SUMF1; FGE; UNQ3037; AAPA3037; MGC131853; MGC150436; sulfatase-modifying factor 1; OTTHUMP00000115300; OTTHUMP00000207086; OTTHUMP00000207089; FGly-generating enzyme; C-alpha-formylglycine-generating enzyme 1; sulfatase modifying factor 1; OTTHUMP00000207088; EC 1.8.99

Gene ID

285362

mRNA Refseq

NM_182760

Protein Refseq

NP_877437

MIM

607939

UniProt ID

Q8NBK3

Chromosome

3p26.1

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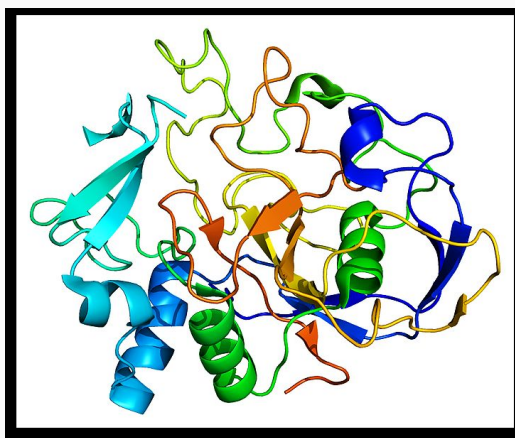
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Location

Function

binding; metal ion binding; oxidoreductase activity; protein homodimerization activity

PDBrendering based
on 1y1e.



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