

SUMF1, 91-374aa, Human, His tag, E.coli

Cat.NO.: TP04094

3th Edition

Synonyms:Sulfatase modifying factor 1, FGE

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.

Form:Liquid. In 20mM Tris-HCl, pH8.0, 2M Urea, 20%Glycerol, 2mM DTT

Molecular Weight:34.1kDa (304aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMVPIAGVFTMGTDPPQIKQDGEAPARRVTIDAFYMDAYEVSNTFEFEKFNSTGY
LTEAEKFGDSFVFEGMLSEQVTNIQQAVAAAPWWLPVKGANWRHPEGPDSTILHRPDHPVLHVSWNDVAVAYCT
WAGKRLPTEAEWEYSCRGGLNRLFPWGNKLQPKGQHYANIWQQGEFPVTNTGEDGFQGTAPVDAFPPNGYGLY
NIVGNAWEWTSWWTVHHSVEETLNPKGPPSGKDRVKKGGSYMCHRSYCYRYRCAARSQNTPDSSASNLGFRC
AADRLPTMD

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.