
Product Data Sheet

Product Name: SUMF1 Human, Sf9

Cat. No.: GP26348

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	SUMF1, AAPA3037, FGE, UNQ3037, Formylglycine-generating enzyme, C-alpha-formylglycine-generating enzyme 1, Sulfatase-modifying factor 1.		
Amino Acid Sequence	<p>SQEAGTGAGA GSLAGSCGCG TPQRPGAHGS SAAAHRYSTRE ANAPGPVPG RQLAHSKMVP IPAGVFTMGT DDPQIKQDGE APARRVTIDA FYMDAYEVSN TEFEKFNST GYLTEAEKFG DSFVFEGMLS EQVKTNIQQA VAAAPWWLPV KGANWRHPEG PDSTILHRPD HPVLHVSND AVAYCTWAGK RLPTEAEWEY SCRGGLHNRL FPWGNKLQPK GQHYANIWQG EFPVTNTGED GFQGTAPVDA FPPNGYGLYN IVGNAWEWTS DWWTVHHSVE ETLNPKGPPS GKDRVKKGGS YMCHRSYCYR YRCAARSQNT PDSSASNLGF RCAADRLPTM DHHHHHH.</p>		
Formulation	SUMF1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

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.

Stability

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.

Background

SUMF1 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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