
Product Data Sheet

Product Name: SUMF1 Human
 Cat. No.: GP24749
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Sulfatase modifying factor 1; FGE; C-alpha-formylglycine-generating enzyme 1; FGly-generating enzyme; UNQ3037; AAPA3037; EC 1.8.99.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MVPIPAGVFT MGTDDPQIKQ DGEAPARRVT IDAFYMDAYE VSNTEFEK FV NSTGYLTEAE KFGDSFVFEG MLSEQVKTNI QQAVAAAPWW LPVKGANWRH PEGPDSTILH RPDHPVLHVS WNDAVAYCTW AGKRLPTEAE WEYSCRGGLH NRLFPWGNKL QPKGQHYANI WQGEFPVTNT GEDGFQGTAP VDAFPPNGYG LYNIVGNAWE TSDWWTVHH SVEETLNPKG PPSGKDRVKK GGSYMCHRSY CYRYRCAARS QNTPDSSASN LGFRCAADRL PTMD		
Formulation	SUMF1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 2M UREA, 2mM DTT and 20% glycerol.		

Introduction

SUMF1 is a member of the SUMF 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. Alterations in this gene result in multiple sulfatase deficiency which is 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 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 304 amino acids (91-374 a.a.) and having a molecular mass of

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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34.1kDa.SUMF1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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