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Datasheet for ABIN1097598

SUMF1 Protein (AA 34-374) (His tag)

Overview

Quantity:	50 µg
Target:	SUMF1
Protein Characteristics:	AA 34-374
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUMF1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Sulfatase Modifying Factor 1/SUMF1 (C-6His)
Sequence:	<p>SQEAGTGAGA GSLAGSCGCG TPQRPGAHGS SAAAHRYSTRE ANAPGPVPG E RQLAHSKMVP</p> <p>IPAGVFTMGT DDPQIKQDGE APARRVTIDA FYMDAYEVSN TEFEKFNST GYLTEAEKFG</p> <p>DSFVFEGMLS EQVKTNIQQA VAAAPWWLPV KGANWRHPEG PDSTILHRPD HPVLHVSWND</p> <p>AVAYCTWAGK RLPTEAEWEY SCRGG LHNRL FPWGNKLQPK GQHYANIWQG EFPVTNTGED</p> <p>GFQGTAPVDA FPPNGYGLYN IVGNAWEWTS DWWTVHHSVE ETLNPKGPPS GKDRVKKGGS</p> <p>YMCHRSYCYR YRCAARSQNT PDSSASNLGF RCAADRLPTM DVDHHHHHHH</p>
Characteristics:	Recombinant Human Sulfatase Modifying Factor 1/SUMF1 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ser34-Asp374) of Human SUMF1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target: SUMF1

Alternative Name: sumf1 ([SUMF1 Products](#))

Sub Type: Fusionprotein

Background: Human Sulfatase Modifying Factor 1 (SUMF1) is a 42kDa protein. SUMF1 is a Ca²⁺-binding member of the sulfatase-modifying factor family. SUMF1 is a soluble ER luminal glycoprotein, it converts inactive sulfatases into an active form by transforming a catalytic site cysteine into a formylglycine residue. In the ER, SUMF1 can exist as either a monomer, or a disulfide-linked homodimer or a heterodimer with SUMF2. Three splice isoforms are known.

Alternative Names: Sulfatase-Modifying Factor 1, C-Alpha-Formylglycine-Generating Enzyme 1, SUMF1, FGE

Molecular Weight: 38.27 kDa

UniProt: [Q8NBK3](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Supplied as a 0.2 μm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 2 mM CaCl₂, 10 % Glycerol, pH 7.5.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: -80 °C

Storage Comment: Store at < -20°C, stable for 6 months after receipt.
Please minimize freeze-thaw cycles.

Expiry Date: 6 months