SUMF1 Protein, Human (HEK293, His)

Cat. No.:	HY-P71345
Synonyms:	Sulfatase-Modifying Factor 1; C-Alpha-Formylglycine-Generating Enzyme 1; SUMF1; FGE
Species:	Human
Source:	HEK293
Accession:	Q8NBK3 (S34-D374)
Gene ID:	285362
Molecular Weight:	38-42 kDa

PROPERTIES

AA Sequence	S Q E A G T G A G A G S L A G S C G C G T P Q R P G A H G S S A A A H R Y S R E A N A P G P V P G E R Q L A H S K M V P I P A G V F T M G T D D P Q I K Q D G E A P A R R V T I D A F Y M D A Y E V S N T E F E K F V N S T G Y L T E A E K F G D S F V F E G M L S E Q V K T N I Q Q A V A A A P W W L P V K G A N W R H P E G P D S T I L H R P D H P V L H V S W N D A V A Y C T W A G K R L P T E A E W E Y S C R G G L H N R L F P W G N K L Q P K G Q H Y A N I W Q G E F P V T N T G E D G F Q G T A P V D A F P P N G Y G L Y N I V G N A W E W T S D W W T V H H S V E E T L N P K G P P S G K D R V K K G G S Y M C H R S Y C Y R Y R C A A R S Q N T P D S S A S N L G F R C A A D R L P T M D
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 2 mM $CaCl_2$, 10% Glycerol, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	SUMF1 Protein functions as an oxidase, facilitating the conversion of cysteine to 3-oxoalanine on specific target proteins, a process involving molecular oxygen and an unidentified reducing agent. This enzymatic activity is crucial for the maturation

of arylsulfatases and some alkaline phosphatases, leading to the formation of 3-oxoalanine, also known as formylglycine (fGly). Notable substrates for SUMF1 include GALNS, ARSA, STS, and ARSE, highlighting its role in the modification of key proteins involved in various biological processes.

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