Recombinant Human SUMF1 Protein (His Tag)

Catalog No. PKSH033084

Note: Centrifuge before opening to ensure complete recovery of vial contents.

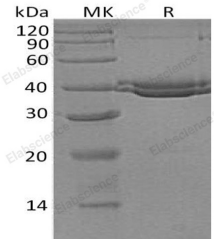
Description

Synonyms	Sulfatase-Modifying Factor 1;C-Alpha-Formylglycine-Generating Enzyme 1;SUMF1;FGE
Species	Human
Expression Host	HEK293 Cells
Sequence	Ser34-Asp374
Accession	Q8NBK3
Calculated Molecular Weight	38.4 kDa
Observed molecular weight	38-42 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 2mM $CaCl_2$, 10% Glycerol, pH 7.5.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Human Sulfatase Modifying Factor 1 (SUMF1) is a 42kDa protein. SUMF1 is a Ca2+-binging member of the sulfatase-modifying factor family. SUMF1 is a soluble ER lumenal 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.

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