Data Sheet (Cat.No.TMPJ-01229)

TargetMol

SUMF1 Protein, Human, Recombinant (His)

General Information

Synonyms:	C-Alpha-Formylglycine-Generating Enzyme 1;FGE;C-α-Formylglycine-Generating Enzyme 1; Sulfatase-Modifying Factor 1;SUMF1
Protein Construction:	Ser34-Asp374
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NBK3
Molecular Weight:	38-42 KDa (reducing condition)
AA Sequence:	Ser34-Asp374

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 2 mM CaCl₂, 10% Glycerol, pH 7.5.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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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