

Recombinant Human SUMF1 (C-6His)

Catalog No: C501

Description	Recombinant Human Sulfatase Modifying Factor 1 is produced by our Mammalian expression system and the target gene encoding Ser34-Asp374 is expressed with a 6His tag at the C-terminus.
Expression System	Human cells
Alternative name	Sulfatase-Modifying Factor 1; C-Alpha-Formylglycine-Generating Enzyme 1; SUMF1; FGE
Accession No.	Q8NBK3
Predicted Molecular Weight	38.4kDa
Apparent Molecular Weight	38-42kDa, reducing conditions.
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 2mM CaCl ₂ , 10% Glycerol, pH 7.5.
Shipping	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Background	Human Sulfatase Modifying Factor 1 (SUMF1) is a 42kDa protein. SUMF1 is a Ca ²⁺ -binding 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.

SDS-PAGE