



Recombinant Protein Technical Manual

Recombinant Human SUMF1 Protein (His Tag)

RPES0280

Product Data:

Product SKU: RPES0280

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q8NBK3

Protein Information:

Molecular Mass: 38.3 kDa

AP Molecular Mass: 38-42 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 TrisHCl, 150mM NaCl, 2mM CaCl₂, 10% Glycerol, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Sulfatase-Modifying Factor 1; C-Alpha-Formylglycine-Generating Enzyme 1; SUMF1; FGE

Immunogen Information:

Sequence: Ser34-Asp374

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.