

### InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

## **Technical Data Sheet**

Human SUMF1 Protein (N-His)

**Catalog Number:** 601701, 601702

Size: 25 ug, 100 ug

Target Name: SUMF1, Formylglycine-generating enzyme

Regulatory Status: RUO

#### **Product Details**

Application: ELISA, BLI Format: Liquid, Purified Expression Host: CHO

Species: Human

Accession Number: Q8NBK3

Sources: Recombinant human SUMF1 protein (Ser34-Asp374) with N-terminus His tag was

expressed in CHO Cells.

Molecular Weight: This protein has a predicted molecular weight of 39.6 kDa. Under DTT-reducing

conditions, the protein migrates at approximately 45 kDa on SDS-PAGE.

Affinity Tag: N-His

**Purity:** >90% based on SDS-PAGE under reducing condition **Formulation:** 25 mM HEPES, 150 mM NaCl, 10% Glycerol, pH 7.4

Endotoxin level: Not tested

Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a

lot-specific concentration.

**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial can be stored at  $4^{\circ}$ C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered HEPES buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <=  $-70^{\circ}$ C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

#### **Background Information**

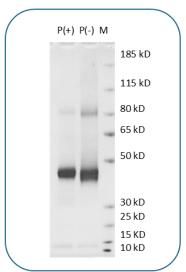
Human SUMF1 (also known as formylglycine-generating enzyme, FGE) is a 42 kDa soluble glycoprotein located in the endoplasmic reticulum (ER) lumen. It activates sulfatases by converting a cysteine residue in their catalytic site into a formylglycine, a modification essential for sulfatase function. SUMF1 can form monomers, disulfide-linked homodimers, or heterodimers with SUMF2. It is a Ca2+-binding protein and exists in three splice isoforms. Mature human SUMF1 shares 90% amino acid identity with its mouse counterpart.

### **Product Data**



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Purified Human SUMF1 final product on SDS-PAGE under reducing (P+) and non-reducing (P-) conditions. The purity of Human SUMF1 appears to be greater than 90% based on reducing condition. The bands above 80 kDa in non-reducing is a dimer. This band is significantly reduced in reducing conditions. The band below 15 kDa is likely a truncated N-terminus fragment.