



# Recombinant Protein Technical Manual

## Recombinant Human SUMO3/SMT3A Protein

RPES5185

### Product Data:

**Product SKU:** RPES5185

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P55854

### Protein Information:

**Molecular Mass:** 11.6 kDa

**AP Molecular Mass:** 18 kDa

**Tag:**

**Bio-activity:**

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

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

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

**Application:**

**Synonyms:** Small Ubiquitin-Related Modifier 3; SUMO-3; SMT3 Homolog 1; SUMO-2; Ubiquitin-Like Protein SMT3B; Smt3B; SUMO3; SMT3B; SMT3H1

## Immunogen Information:

**Sequence:** Met 1-Phe103

## Background:

SUMO3 belongs to the SUMO protein family and operates like ubiquitin. Ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. Nevertheless unlike ubiquitin that targets proteins for degradation, SUMO3 takes part in several cellular processes, such as nuclear transport, transcription regulation, apoptosis and protein stability. SUMO3 participates in amyloid beta generation and has a key role in the onset or progression of Alzheimer's disease.