



# Recombinant Protein Technical Manual

## Recombinant Human SGTA Protein (His Tag)

RPES4906

### Product Data:

**Product SKU:** RPES4906

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** O43765

### Protein Information:

**Molecular Mass:** 36.2 kDa

**AP Molecular Mass:** 35 kDa

**Tag:** N-6His

**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 20mM Tris, 150mM NaCl, pH 8.0.

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

**Application:**

**Synonyms:** Small Glutamine-Rich Tetratricopeptide Repeat-Containing Protein Alpha; Alpha-SGT; Vpu-Binding Protein; UBP; SGTA; SGT; SGT1

## Immunogen Information:

**Sequence:** Met 1-Glu313

## Background:

Small Glutamine-Rich Tetratricopeptide Repeat-Containing Protein  $\alpha$  (SGTA) is an ubiquitously expressed protein which belongs to the SGT Family. SGTA contains three TPR Protein-Protein Interaction Duplicates. SGTA is a co-chaperone that binds directly to HSC70 and HSP70 and regulates their ATPase activity. SGTA is capable of interacting with the major nonstructural protein of Parvovirus H and 70-kDa heat shock cognate protein. It interacts with NS1 from Parvovirus H, with Vpu and Gag from HIV. It also interacts with SARS-CoV Accessory Protein 7a, DNAJC5 and DNAJC5B. However, its function is not known. Since this transcript is expressed ubiquitously in various tissues, SGTA may serve a housekeeping function.