

## SGTA Human

**Description:**SGTA Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 321 amino acids(1-313 a.a.) and having a molecular mass of 35.1 kDa. SGTA protein is fused to a 8 amino acid His-Tag at C-terminus and purified by standard chromatography.

Catalog #:PRPS-814

For research use only.

**Synonyms:**alphaSGT, hSGT, SGT, Vpu-binding protein, UBP, Small glutamine-rich tetratricopeptide repeat-containing protein alpha, Alpha-SGT, SGT1.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MDNKKRLAYA IIQFLHDQLR HGGLSSDAQE SLEVAIQCLE  
TAFGVTVEDS DLALPQTLPE IFEAAATGKE MPQDLRSPAR TPPSEEDSAE AERLKTEGNE  
QMKVENFEAA VHFYGKAIEL NPANAVYFCN RAAAYSKLGN YAGAVQDCER AICIDPAYSK  
AYGRMGLALS SLNKHVEAVA YYKKALELDP DNETYKSNLK IAEKLRAP SPTGGVGSFD  
IAGLLNPGF MS

**Purity:**Greater than 95% as determined by SDS-PAGE.

**Formulation:**

SGTA Human solution containing 20mM Tris HCL pH-8, 1mM DTT and 10% glycerol.

**Stability:**

SGTA human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

SGTA is a ubiquitously expressed protein that contains three TPR protein-protein interaction duplicates. SGTA takes part as a component of the androgen receptor (AR)-chaperone-cochaperone complex, functions as a cochaperone and participates in androgen signaling. SGTA binds directly to HSC70 and HSP70 and mediates their ATPase activity. SGTA gene encodes a protein that is able to interact with the chief nonstructural protein of parvovirus H-1 and 70-kDa heat shock cognate. In addition, SGTA interacts with Vpu and Gag from HIV-1, SARS-CoV accessory protein 7a, DNAJC5 and DNAJC5B. Since this transcript is expressed universally in several tissues, SGTA serves a housekeeping function. While being involved in apoptosis and androgen signaling, SGTA is a possible molecule for polycystic ovary syndrome, a disorder characterized by androgen excess, obesity and menstrual disturbances.

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