

## Recombinant Human SGTA, His-tagged

**Cat. No.** SGTA-2359H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human SGTA protein, fused to His-tag at C-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 35.1 kDa (321aa).                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>              | SGTA, also known as SGT or hSGT, is a ubiquitously expressed protein that contains three TPR protein-protein interaction repeats. This protein is believed to function as a component of the androgen receptor (AR)-chaperone-cochaperone complex, acting as a cochaperone involved in androgen signaling. In addition, SGTA functions as a cochaperone that binds directly to HSC70 and HSP70 and regulates their ATPase activity. On the basis of its role in apoptosis and androgen signaling, SGTA is a potential candidate for PCOS (polycystic ovary syndrome), a disorder characterized by androgen excess, obesity and menstrual disturbances. |
| <b>Form</b>                     | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>                   | > 95% by SDS – PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sequences Of Amino Acids</b> | MDNKKRLAYA IIQFLHDQLR HGGLSSDAQE SLEVAIQCLE TAFGVTVEDS<br>DLALPQTLPE IFEAAATGKE MPQDLRSPAR TPPSEEDSAE AERLKTEGNE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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QMKVENFEAA VHFYGKAIEL NPANAVYFCN RAAAYSKLGN YAGAVQDCER  
 AICIDPAYSK AYGRMGLALS SLNKHVEAVA YYKKALELDP DNETYKSNLK  
 IAEKLRAP SPTGGVGSFD IAGLLNNPGF MSMASNLMMN PQIQQLMMSGM  
 ISGGNNPLGT PGTSPSQNDL ASLIQAGQQF AQQMQQQNPE LIEQLRSQIR  
 SRTPSASNDD QQELEHHHHH H.

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

|                            |                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | SGTA small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha [ Homo sapiens ]                                                                                                  |
| <b>Synonyms</b>            | SGTA; small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha; SGT; hSGT; alphaSGT; small glutamine-rich tetratricopeptide; protein containing three tetratricopeptide repeats |
| <b>Gene ID</b>             | 6449                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_003021                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_003012                                                                                                                                                                                    |
| <b>MIM</b>                 | 603419                                                                                                                                                                                       |
| <b>UniProt ID</b>          | O43765                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 19p13                                                                                                                                                                                        |
| <b>Function</b>            | protein binding                                                                                                                                                                              |

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