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# **Recombinant human SGTA protein**

Catalog Number: ATGP0533

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-313aa

#### **UniProt No.**

043765

#### **NCBI Accession No.**

NP 003012

#### **Alternative Names**

Small glutamine-rich tetratricopeptide repeat-containing protein alpha, alphaSGT, hSGT, SGT, Small glutamine-rich tetratricopeptide repeat-containing protein alpha Small glutamine rich tetratricopeptide repeat TPR containing alpha, uBP, Vpu binding protein.

#### **PRODUCT SPECIFICATION**

## **Molecular Weight**

35.1 kDa (321aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT

#### **Purity**

> 95% by SDS-PAGE

# Tag

His-Tag

# **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

# **Description**

SGTA, also known as SGT or hSGT, is a ubiquitously expressed protein that contains three TPR protein-protein interaction repeats. This protien 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



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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. Recombinant SGTA protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

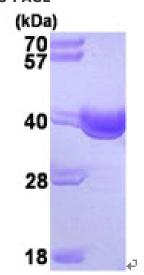
MDNKKRLAYA IIQFLHDQLR HGGLSSDAQE SLEVAIQCLE TAFGVTVEDS DLALPQTLPE IFEAAATGKE MPQDLRSPAR TPPSEEDSAE AERLKTEGNE QMKVENFEAA VHFYGKAIEL NPANAVYFCN RAAAYSKLGN YAGAVQDCER AICIDPAYSK AYGRMGLALS SLNKHVEAVA YYKKALELDP DNETYKSNLK IAELKLREAP SPTGGVGSFD IAGLLNNPGF MSMASNLMNN PQIQQLMSGM ISGGNNPLGT PGTSPSQNDL ASLIQAGQQF AQQMQQQNPE LIEQLRSQIR SRTPSASNDD QQELEHHHHH H

# **General References**

Cziepluch C., et al. (1998) J Virol. 72(5):4149-56. Callahan MA., et al. (1998) J Virol. 72(6):5189-97.

## **DATA**





15% SDS-PAGE (3ug)€

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

