

Recombinant human SGTA protein

Catalog Number: ATGP0533

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-313aa

UniProt No.

O43765

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 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

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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

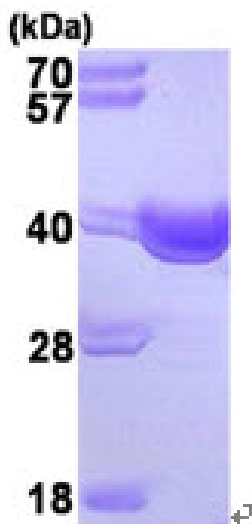
MDNKKRLAYA IIQFLHDQLR HGGLSSDAQE SLEVAIQCLE TAFGVTVEDS DLALPQTLPE IFEEAATGKE MPQDLRSPAR
TPPSEEDSAE AERLKTEGNE QMKVENFEAA VHFYGKAIEL NPANAVYFCN RAAAYSKLGN YAGAVQDCER AICIDPAYSK
AYGRMGLALS SLNKHVEAVA YYKKALELDP DNETYKSNLK IAEKLRAP SPTGGVGSFD IAGLLNPGF MSMASNLMMN
PQIQQLMSGM ISGGNNPLGT PGTSPSQNDL ASLIQAGQQF AQQMQQNPE 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

SDS-PAGE



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

15% SDS-PAGE (3ug)*