

SGTA, 1-313 aa, Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP03921

3th Edition

Synonyms: Small glutamine-rich tetratricopeptide repeat-containing protein alpha, alphaSGT, hSGT, SGT.

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 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.

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

Molecular Weight: 35.1 kDa (321aa), confirmed by MALDI-TOF

Sequences:

MDNKKRLAYAIQFLHDQLRHGGLSSDAQESLEVAIQCLETAFGVTVEDSDLALPQTLPEIFEAAATGKEMPQDLRS
PARTPPSEEDSAEAERLKTEGNEQMKVENFEAAVHFYGGKAIELNPANAVYFCNRAAAYS KLGNYAGAVQDCERAIC
IDPAYSKAYGRMGLALSSLNKHVEAVAYYKALELDPDNETYKSNLKIAELKLREAPSPTGGVGSFDIAGLLNPNPF
MSMASNLMNPNQIQQLMSGMISGGNNPLGTPGTSPSQNDLASLIQAGQQFAQQMQQQNP ELIEQLRSQIRSRTPS
ASNDDQQELEHHHHHHH

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.