
Product Data Sheet

Product Name: SGTA Human
 Cat. No.: GP24568
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	alphaSGT; hSGT; SGT; Vpu-binding protein; UBP; Small glutamine-rich tetratricopeptide repeat-containing protein alpha; Alpha-SGT; SGT1.		
Amino Acid Sequence	<p>MDNKKRLAYA IIQFLHDQLR HGGLSSDAQE SLEVAIQCLE TAFGVTVEDS DLALPQTLPE IFEEAATGKE MPQDLRSPAR TPPSEEDSAE AERLKTEGNE QMKVENFEAA VHFYGGKAIEL NPANAVYFCN RAAAYS KLGN YAGAVQDCER AICIDPAYS K AYGRMGLALS SLNKHVEAVA YYKKALELDP DNETYKSNLK IAELKLREAP SPTGGVGSFD IAGLLNPGF MSMASNLMMN PQIQQLMMSGM ISGGNNPLGT PGTSPSQNDL ASLIQAGQQF AQQMQQQNPE LIEQLRSQIR SRTPSASNDD QQELEHHHHH H.</p>		
Formulation	SGTA Human solution containing 20mM Tris HCL pH-8, 1mM DTT and 10% glycerol.		

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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