

Recombinant Human SHBG protein, His-tagged

Cat. No. SHBG-505H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SHBG (P04278) aa. (Pro51~Asp218) fused with His tag was produced in HEK293F cells.
Species	Human
Source	HEK293
ProteinLength	Pro51~Asp218
Description	This gene encodes a steroid binding protein that was first described as a plasma protein secreted by the liver but is now thought to participate in the regulation of steroid responses. The encoded protein transports androgens and estrogens in the blood, binding each steroid molecule as a dimer formed from identical or nearly identical monomers. Polymorphisms in this gene have been associated with polycystic ovary syndrome and type 2 diabetes mellitus. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.4kDa; Accurate Molecular Mass: 20kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 60%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Characteristic	Isoelectric point is 5.4.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; EMSA; Reporter Assays; Purification; Amine Reactive Labeling
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200ug/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	SHBG sex hormone binding globulin [Homo sapiens (human)]
Official Symbol	SHBG
Synonyms	SHBG; sex hormone binding globulin; ABP; SBP; TEBG; sex hormone-binding globulin; sex steroid-binding protein; testis-specific androgen-binding protein; testosterone-binding beta-globulin; testosterone-estradiol-binding globulin; testosterone-estrogen-binding globulin

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Gene ID	6462
mRNA Refseq	NM_001040.4
Protein Refseq	NP_001031.2
UniProt ID	P04278
SDS-PAGE	