

Active Recombinant Human SHBG protein, His-tagged

Cat. No. SHBG-506H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human SHBG protein(P04278)(31~401 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	31-401 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Sex hormone-binding globulin (SHBG) or sex steroid-binding globulin (SSBG) is a glycoprotein, a molecule that consists of a carbohydrate plus a protein, and is produced mainly in your liver. It binds to three sex hormones found in both men and women: estrogen, dihydrotestosterone (DHT) and testosterone. Its job is to transport these hormones throughout your blood to other tissues in your body. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human SHBG and bsa-conjugated testosterone(Testo) . Briefly, biotin-linked recombinant human SHBG were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100µl were then transferred to bsa-conjugated Testo -coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times and incubation with HRP conjugate for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally,

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add 50μstop solution to the wells and read at 450nm immediately. The binding activity of SHBG and Testo was shown, and this effect was in a dose dependent manner.

Molecular Mass	42.0kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 97% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
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]
Official Symbol	SHBG
Synonyms	SHBG; sex hormone-binding globulin; ABP; androgen binding protein; MGC126834; MGC138391; TEBG; sex steroid-binding protein; testosterone-binding beta-globulin; testosterone-estrogen-binding globulin; testosterone-estradiol-binding globulin; testis-specific androgen-binding protein; SBP;
Gene ID	6462
mRNA Refseq	NM_001040
Protein Refseq	NP_001031

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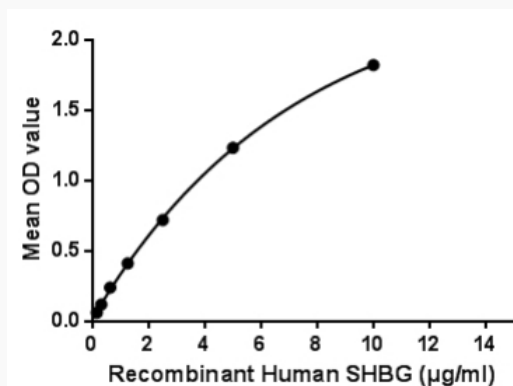
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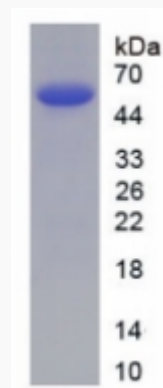
MIM 182205

UniProt ID P04278

Activity



SDS-PAGE



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