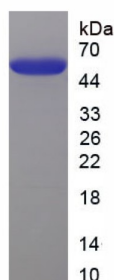
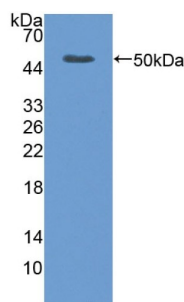


Human Sex Hormone Binding Globulin (SHBG) Protein

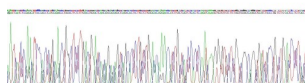
Catalogue No.: abx655825



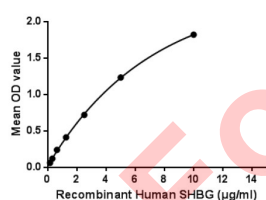
SDS-PAGE analysis of recombinant Human SHBG.



Western blot analysis of recombinant Human SHBG.



Gene sequencing extract of recombinant Human SHBG.



Binding activity of recombinant Human SHBG with Testosterone.

Human Sex Hormone Binding Globulin (SHBG) Protein (Active) is an Active Recombinant Human protein expressed in 293F cells.

Target: Sex Hormone Binding Globulin (SHBG)

Origin: Human

Datasheet

Version: 6.0.0
Revision date: 14 Oct 2025



Expression: Recombinant

Tested Applications: WB, SDS-PAGE

Host: 293F cells

Conjugation: Unconjugated

Form: Lyophilized

Activity: Active

Biological Activity: Sex Hormone-Binding Globulin (SHBG), also known as Sex Steroid-Binding Globulin (SSBG), is a glycoprotein that binds to the sex hormones estrogen, dihydrotestosterone (DHT) and testosterone. SHBG transports these hormones in blood to tissues in the body. A binding ELISA assay was conducted to detect the interaction of recombinant human SHBG and BSA-conjugated Testosterone. Briefly, biotin-conjugated SHBG was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to BSA-conjugated Testosterone-coated microplate wells and incubated for 1 h at 37°C. Wells were washed with PBST 3 times and incubated for 30 min with HRP-conjugate. Wells were aspirated and washed 5 times. TMB substrate solution was added and wells were incubated for 15-25 minutes at 37 °C. Finally, 50 µl stop solution was added to the wells and the absorbance was read at 450 nm immediately. The binding activity of SHBG and Testosterone is shown in Figure 4.

Purity: > 99%

Reconstitution: To keep the original salt concentration, we recommend reconstituting to the original concentration prior to lyophilization (see Concentration) in ddH₂O. If a lower concentration is required, dilute in 10 mM PBS, pH 7.6. If a higher concentration is required, the product can be reconstituted directly in 10 mM PBS, pH 7.6, though please note that this will change the overall salt concentration. The stock concentration should be between 0.1-1.0 mg/ml. Do not vortex.

Storage: Store at 2-8°C for up to one month. For long-term storage, store at -80°C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: P04278 ([UniProt](#), [ExPASy](#))

Gene Symbol: SHBG

GeneID: [6462](#)

OMIM: [182205](#)

HGNC: 10839

KEGG: hsa:6462

Datasheet

Version: 6.0.0
Revision date: 14 Oct 2025



Ensembl: ENSG00000129214

String: [9606.ENSP00000369816](#)

Molecular Weight: Calculated MW: 42.0 kDa
Observed MW (SDS-PAGE): 50 kDa

Sequence Fragment: Arg31-Ser401

Sequence: RPVLPTQSAH DPPAVHLSNG PGQEPIAVMT FDLTKITKTS SSFEVRTWDP EGVIFYGDTN
PKDDWFMLGL RDGRPEIQLH NHWAQLTVGA GPRLDDGRWH QVEVKMEGDS VLLEVDGEEV
LRLRQVSGPL TSKRHPIMRI ALGGLLPAS NLRLPLVPAL DGCLRRDSWL DKQAEISASA
PTSLRSCDVE SNPGIFLPPG TQAEFNLRDI PQPHAEPWAF SLDLGLKQAA GSGHLLALGT
PENPSWLSLH LQDQKVVLSS GSGPGLDLPL VLGLPLQLKL SMSRVVLSQG SKMKALALPP
LGLAPLLNLW AKPQGRLFLG ALPGEDSSTS FCLNGLWAQG QRLDVDQALN RSHEIWITHSC
PQSPGNGTDA S

Tag: N-terminal His tag

Buffer: Prior to lyophilization: 10 mM PBS, pH 7.6, containing 5% Trehalose.

Endotoxin Level: < 1.0 EU/µg (LAL method)

Concentration: Prior to lyophilization: 200 µg/ml

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.