

Recombinant Human SHBG protein, His-tagged

Cat. No. SHBG-3742H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human SHBG was expressed in CHO cells with C-Terminal His-tag + myc-epitope.
Species	Human
Source	CHO
ProteinLength	428 AA
Description	Sex-hormone-binding globulin (SHBG) is a beta-globulin that specifically binds steroid hormones. Its molecular weight is 86 kDa/mol. The major site of SHBG synthesis is thought to be the hepatocytes. Its production is regulated by androgen/estrogen balance, thyroid hormones, insulin and dietary factors, among others. SHBG is involved in the transport of sex steroids in plasma. Its concentration is a major factor regulating their distribution between protein-bound and free states. Determination of SHBG concentration is mainly of importance in the evaluation of mild disorders of androgen metabolism and it allows identification of women with hirsutism who are likely to respond to estrogen therapy. Testosterone/SHBG-ratios correlate well with both measured and calculated values for free testosterone, and help to discriminate between subjects with excessive androgen activity and normal individuals.
Form	Frozen, stabilized and concentrated medium
Molecular Mass	46.79 kDa (calculated); 94kDa (forms a dimer)

 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

AA Sequence	AAQPARRARRTKLLLLLLLLLRHTRQGVALRPVLPTQSAHDPPAVHLSNGPGQEPIA VMTFDLTKITKTSSSFVVRTWDPEGVIFYGDTNPKDDWFMLGLRDGRPEIQLHNHW AQLTVGAGPRLDDGRWHQVEVKMEGDSVLLEVDGEEVLRLRQVSGPLTSKRHPIM RIALGGLLFPASNLRLPLVPALDGCLRRDSWLDKQAEISASAPTSRSCDVESNPGIF LPPGTQAEFNLRDIPQPHAEPWAFSLDLGLKQAAGSGHLLALGTPENPSWLSLHLQ DQKVLSSSGSGPGLDLPLVLGLPLQLKLSMSRVVLSQGSKMALALPPLGLAPLLNL WAKPQGRFLFGALPGEDSSTSFCNLNGLWAQGQRLDVDQALNRSHEIWTHSCPQSP GNGTDASHSRGGPEQKLISEEDLNSAVDHHHHHH
Applications	ELISA standard; Standard for Immunoanalytical methods
Notes	This product is intended for research use only.
Storage	Store at -80 centigrade.
GENE INFORMATION	
Gene Name	Sex hormone binding globulin [Homo sapiens (human)]
Official Symbol	SHBG
Synonyms	ABP; SBP; TEBG; SHBG, Sex steroid-binding protein; Testisspecific androgen-binding protein; Testosterone-estradiolbinding globulin; Testosterone-estrogen-binding globulin
Gene ID	6462
mRNA Refseq	NM_001040.3
Protein Refseq	NP_001031.2

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MIM	182205
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UniProt ID	P04278
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