
Product Data Sheet

Product Name: SHBG Human

Cat. No.: GP24570

Batch No.: 1

Product Data

Purity	>98%	Source	CHO cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Sex hormone-binding globulin; SHBG; Sex steroid-binding protein; SBP; Testis-specific androgen-binding protein; ABP; Testosterone-estradiol-binding globulin; TeBG; Testosterone-estrogen-binding globulin; SHBG.		
Amino Acid Sequence	AAQPARRARR TKLLLLLLLL LRHTRQGWAL 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 LQDQKVVLS GSGPGLDLPL VLGLPLQLKL SMSRVVLSQG SKMKALALPP LGLAPLLNLW AKPQGRLFLG ALPGEDSSTS FCLNGLWAQG QRLDVDQALN RSHEIWITHSC PQSPGNGTDA SHSRGGPEQKLISEEDLNSA VDHHHHHH.		
Formulation	SHBG filtered solution at a concentration of 55.6µg/ml in certified FBS (Fetal Bovine Serum 5%).		

Introduction

Sex-hormone-binding globulin (SHBG) is a beta-globulin which specifically binds steroid hormones; it is involved in the transport of sex steroids in plasma. The main site of SHBG synthesis is assumed to be the hepatocytes. The production of SHBG is regulated by androgen/estrogen balance, thyroid hormones, and dietary factors, among others. The concentration of SHBG is a key factor regulating their distribution between protein-bound and free states. SHBG concentration determination is primarily significant in the evaluation of mild disorders of androgen metabolism and it allows detection of women with hirsutism who are likely to react to estrogen therapy. Testosterone/SHBG-ratios correlate well with both measured and calculated values for free testosterone thus aid to

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

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distinguish between subjects with excessive androgen activity and normal individuals. SHBG gene polymorphisms are linked with polycystic ovary syndrome and type 2 diabetes mellitus.

Stability

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

SHBG Human Recombinant produced in CHO cells is a single, glycosylated, polypeptide chain containing a total of 428 amino acids, having a molecular mass of 46.79kDa (calculated), the SHBG is fused to a 6 a.a C-terminal His tag and also includes a myc-epitope. The Human SHBG is purified by proprietary chromatographic techniques.

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