Sex Hormone-Binding Globulin Human CHO

Product Data Sheet

Type: Recombinant
Source: CHO
Species: Human
Other names: SHBG, Sex steroid-binding protein, Testis-specific androgen-binding protein, Testosterone-estradiol-binding globulin, Testosterone-estrogen-binding globulin

Cat. No.:

RGB001	(0.1 mg)

Description

Total 428 AA. MW: 46.79 kDa (calculated), forms a dimer (MW: 94kDa). Secreted protein, C-Terminal His-tag + myc-epitope (highlighted). UniProtKB acc.no. P04278

Introduction to the Molecule

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.

Research topic

Reproduction, Steroid hormones

Amino Acid Sequence

AAQPARRARR TKLLLLLLLL LRHTRQGWAL RPVLPTQSAH DPPAVHLSNG PGQEPIAVMT FDLTKITKTS SSFEVRTWDP
EGVIFYGDTN PKDDWFMLGL RDGRPEIQLH NHWAQLTVGA GPRLDDGRWH QVEVKMEGDS VLLEVDGEEV LRLRQVSGPL
TSKRHPIMRI ALGGLLFPAS NLRLPLVPAL DGCLRRDSWL DKQAEISASA PTSLRSCDVE SNPGIFLPPG TQAEFNLRDI
PQPHAEPWAF SLDLGLKQAA GSGHLLALGT PENPSWLSLH LQDQKVVLSS GSGPGLDLPL VLGLPLQLKL SMSRVVLSQG
SKMKALALPP LGLAPLLNLW AKPQGRLFLG ALPGEDSSTS FCLNGLWAQG QRLDVDQALN RSHEIWTHSC PQSPGNGTDA
SHSRGGP**EQK LISEEDLN**SA VD**HHHHHH**

Source

CHO

Formulation

Frozen, stabilized and concentrated medium

Reconstitution

Defrost at ambient temperature.

Shipping

On ice. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store frozen at -80°C. Frozen protein remains stable until the expiry date.

Quality Control Test

ELISA detemination for concentration verification.

Applications

ELISA standard, Standard for Immunoanalytical methods

Note

This product is intended for research use only.

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