

## Native Human Sex Hormone-Binding Globulin

Cat. No. SHBG-5519H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Native human SHBG was expressed in Human pregnancy plasma, which having a molecule weight of 80 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Human Pregnancy Plasma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | <p>SHBG or sexsteroid-binding globulin (SSBG) is a glycoprotein that binds to sex hormones, to be specific, testosterone and estradiol. Other steroid hormones such as progesterone, cortisol, and other corticosteroids are bound by transcortin.</p> <p>Testosterone and estradiol circulate in the bloodstream, bound mostly to SHBG and to some degree bound to serum albumin. Only a small fraction is unbound and thus biologically active and able to enter a cell and activate its receptor. The SHBG inhibits the function of these hormones. Thus, bioavailability of sex hormones is influenced by the level of SHBG.</p> |
| <b>Form</b>             | Lyophilized from 0.1M Sodium Phosphate buffer, pH 7.4, without preservative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 80 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | ≥98% as determined by SDS PAGE analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>          | Upon receipt store lyophilized at -20°C. Reconstituted product should also be stored at -20°C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                            |                                                                                                                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Concentration</b>       | 1 mg/vial                                                                                                                                                                                                                                                        |
| <b>Reconstitution</b>      | Centrifuge vial prior to opening. Allow vial to warm to room temperature, then dissolve in laboratory grade water or buffer. Do not use buffers containing divalent metal ions (Ca <sup>2+</sup> , Mg <sup>2+</sup> , etc.)                                      |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>           | SHBG sex hormone-binding globulin [ Homo sapiens ]                                                                                                                                                                                                               |
| <b>Official Symbol</b>     | SHBG                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>            | 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 |
| <b>Gene ID</b>             | 6462                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>         | NM_001040                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_001031                                                                                                                                                                                                                                                        |
| <b>MIM</b>                 | 182205                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>          | P04278                                                                                                                                                                                                                                                           |
| <b>Chromosome Location</b> | 17pter-p12                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | Nongenotropic Androgen signaling, organism-specific biosystem;                                                                                                                                                                                                   |

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**Function**

androgen binding; protein homodimerization activity;

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