

Native Human Sex Hormone-Binding Globulin

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

SPECIFICATION

Product Overview	Native human SHBG was expressed in Human pregnancy plasma, which having a molecule weight of 80 kDa.
Species	Human
Source	Human Pregnancy Plasma
Description	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. 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.
Form	Lyophilized from 0.1M Sodium Phosphate buffer, pH 7.4, without preservative.
Molecular Mass	80 kDa
Purity	≥98% as determined by SDS PAGE analysis
Storage	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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Concentration	1 mg/vial
Reconstitution	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 ²⁺ , Mg ²⁺ , etc.)
GENE INFORMATION	
Gene Name	SHBG sex hormone-binding globulin [Homo sapiens]
Official Symbol	SHBG
Synonyms	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
Gene ID	6462
mRNA Refseq	NM_001040
Protein Refseq	NP_001031
MIM	182205
UniProt ID	P04278
Chromosome Location	17pter-p12
Pathway	Nongenotropic Androgen signaling, organism-specific biosystem;

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Function

androgen binding; protein homodimerization activity;

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