

# Recombinant Human Cortisol Binding Globulin protein ab153766

Description	
Product name	Recombinant Human Cortisol Binding Globulin protein
Purity	> 95 % SDS-PAGE. Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE. ab153766 was lyophilised from a 0.2 µM filtered solution.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	<b><u>P08185</u></b>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MDPNAAVNMNSNHHRGLASANVDFAFSLYKHLVALSPKK NIFISPVSISM ALAMLSLGTCGHTRAQLLQGLGFNLTERSETEIHQGFQHL HQLFAKSDTS LEMTMGNALFLDGSLELLESFSADIKHYESEVLAMNFQD WATASRQINS YVKNKQTQGKIVDLFSGLDSPAILVLVNYIFFKGTWTQPFDL ASTREENFY VDETTVVKVPMMLQSSTISYLHDAELPCQLVQMNYVGNG TVFFILPDKGK MNTVIAALSRDTINRWSAGLTSSQVDLYIPKVTISGVYDLGD VLEEMGIA DLFTNQANFSRITQDAQLKSSKVVKAVLQLNEEGVDTAG STGVTNLNLS KPIILRFNQPFIIIMFDHFTWSSLFLARVMNPVLDHHHHHH
Predicted molecular weight	44 kDa including tags
Amino acids	23 to 405
Tags	His tag C-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab153766** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
	HPLC
<b>Form</b>	Lyophilized

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C or -80°C.
	pH: 7.40
	Constituents: 99% Phosphate Buffer, 0.88% Sodium chloride
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilised protein in 1X PBS. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. For long term storage aliquot and store at < -20°C.

## General Info

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<b>Function</b>	Major transport protein for glucocorticoids and progestins in the blood of almost all vertebrate species.
<b>Tissue specificity</b>	Plasma; synthesized in liver. Has also been identified in a number of glucocorticoid responsive cells.
<b>Involvement in disease</b>	Defects in SERPINA6 are a cause of corticosteroid-binding globulin deficiency (CBG deficiency) [MIM:611489]. CBG deficiency is an extremely rare hereditary disorder characterized by reduced corticosteroid-binding capacity with normal or low plasma corticosteroid-binding globulin concentration, and normal or low basal cortisol levels associated with hypo/hypertension and muscle fatigue.
<b>Sequence similarities</b>	Belongs to the serpin family.
<b>Post-translational modifications</b>	N-glycosylated; binds 5 oligosaccharide chains. Glycosylation in position Asn-260 is needed for steroid binding.
<b>Cellular localization</b>	Secreted.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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