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## Product Data Sheet

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Product Name: SERPINA6 Mouse  
 Cat. No.: GP24536  
 Batch No.: 1

### Product Data

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Corticosteroid-binding globulin; CBG; Serpin A6; Transcortin; Serpina6.		
Amino Acid Sequence	VTDEDSSSHR DLAPTNVDFA FNLYKRLVAL NSDKNTLISP VSISMALAML SLSTRGSTQY LENLGFNMSK MSEAEIHQGF QYLNSLLQQS DTGLEMNMGN VMFLLQNLKL KDSFLADTKH YYESEALTIP SKDWTKAGEQ INNHVKNKTQ GKIEHVVSDL DSSATLILIN YIFLKGIWKL PFSPENTREE DFYVNETSTV KVPMMVQSGN ISYFRDSAIP CQMVMNYVG NGTTFIILPD QGQMDTVVAA LNRDTIDRWG KLMIPRQMNL YIPKFSMSDT YDLQDVLADV GIKDLFTNQS DFADTTKDTP LTLTVLHKAM LQLDEGNVLP AATNGPPVHL PSESFTLKYN RPFIFLAFDK YTWSSLMMSQ VMNPA HHHHH HHHH.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. SERPINA6 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	SERPINA6 was filtered (0.4µm) and lyophilized in phosphate buffered saline pH8.0.		

### Introduction

Serpin Peptidase Inhibitor, Clade A Member 6 (SERPINA6) is a member of the serpin superfamily. SERPINA6 is synthesized and secreted by hepatocytes in the liver and is found in glucocorticoid responsive cells. The concentration of SERPINA6 is regulated by estrogens. SERPINA6 is the main transport protein for progestins and glucocorticoids within the blood. Therefore SERPINA6 regulates their bioavailability and metabolic clearance and protects them from absorption into cells and degradation by chemicals and enzymes. SERPINA6 contains a single steroid binding site with high affinity for cortisol and progesterone. Approximately 80-90% of circulating cortisol is bound to

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

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SERPINA6. The SERPINA6 bound cortisol is considered to be biologically inactive, whereas the unbound cortisol constitutes the active form of cortisol. The active portion of plasma cortisol will therefore depend on the concentration of SERPINA6. SERPINA6 gene defects cause the corticosteroid binding globulin deficiency (CBG deficiency), a rare disorder characterized by reduced CBG production which results in hypo/hypertension and muscle fatigue.

### Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

### Background

SERPINA6 Mouse Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (Val23-Ala397) containing a total of 384 amino acids, having a calculated molecular mass of 43.5kDa and fused to a 9 aa His tag at C-Terminus.

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