
Product Data Sheet

Product Name: SERPINA6 Human

Cat. No.: GP26331

Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 cells.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	Corticosteroid-binding globulin, CBG, Serpin A6, Transcortin, Serpina6.		
Amino Acid Sequence	MDPNAAYVNM SNHHRGLASA NVDFAFSLYK HLVALSPKKN IFISPVISM ALAMLSLGTG GHTRAQLLQG LGFNLTSE TEIHQGFQHL HQLFAKSDTS LEMTMGNALF LDGSLELLES FSADIKHYE SEVLAMNFQD WATASRQINS YVKNKTQGKI VDLFSGLDSP AILVLVNYIF FKGTWTQPF D LASTREENFY VDETTVVKVP MMLQSSTISY LHDSELPCQL VQMNYVGNGT VFFILPDKGK MNTVIAALSR DTINRWSAGL TSSQVDLYIP KVTISGVYDL GDVLEEMGIA DLFTNQANFS RITQDAQLKS SKVVHKAVLQ LNEEGVDTAG STGVTLNLTS KPIILRFNQP FIIMIFDHFT WSSLFLARVM NPVHHHHHH		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.		
Formulation	SERPINA6 filtered (0.4 μm) and lyophilized from 0.5mg/ml in PBS, pH 7.5.		

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 glyocorticoid 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 SERPINA6. The SERPINA6 bound cortisol is considered to be biologically inactive, whereas the unbound cortisol constitutes the active form of cortisol. The active portion

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

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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 Human Recombinant is a single, glycosylated polypeptide chain containing 389 amino acids (23-405a.a) and having a molecular mass of 43.5kDa (calculated). SERPINA6 is fused to a 6 a.a His tag at C-terminal.

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