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32-13404: SERPINA6 Human

Alternative Name : Corticosteroid-binding globulin, CBG, Serpin A6, Transcortin, Serpina6.

Description

Source: HEK293 cells.
Filtered White lyophilized (freeze-dried) powder.
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 glycocorticoid 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 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.
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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	SERPINA6 filtered (0.4 µm) and lyophilized from 0.5mg/ml in PBS, pH 7.5. 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.
Storage condition :	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.
Amino Acid :	MDPNAAYVNM SNHHRGLASA NVDFAFSLYK HLVALSPKKN IFISPVSISM ALAMLSLGTC GHTRAQLLQG LGFNLTERSE TEIHQGFQHL HQLFAKSDTS LEMTMGNALF LDGSLELLES FSADIKHYYE SEVLAMNFQD WATASRQINS YVKNKTQGKI VDLFSGLDSP AILVLVNYIF FKGTWTQPFD LASTREENFY VDETTVVKVP MMLQSSTISY LHDSELPCQL VQMNYVGNGT VFFILPDKGK MNTVIAALSR DTINRWSAGL TSSQVDLYIP KVTISGVYDL GDVLEEMGIA DLFTNQANFS RITQDAQLKS SKVVHKAVLQ LNEEGVDTAG STGVTLNLTS KPIILRFNQP FIIMIFDHFT WSSLFLARVM NPVHHHHHH

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