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**Product Data Sheet**


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Product Name: SERPINA8 Human  
 Cat. No.: GP24537  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Angiotensinogen; Serpin A8; AGT; SERPINA8; ANHU.		
Amino Acid Sequence	DRVYIHPFHL VIHNESTCEQ LAKANAGKPK DPTFIPAPIQ AKTSPVDEKA LQDQLVLVAA KLDTEKDLRA AMVGMLANFL GFRIYGMHSE LWGVVHGATV LSPTAVFGTL ASLYLGALDH TADRLQAILG VPWKDKNCTS RLDAAHKVLSA LQAVQGLLVA QGRADSQAQL LLSTVVGCVFT APGLHLKQPF VQGLALYTPV VLPRSLDFTE LDVAAEKIDR FMQAVTGWKT GCSLTGASVD STLAFNTYVH FQGKMKGFSL LAEPQEFWVD NSTSVSVPM LSGMGTFQHWS DIQDNFSVTQ VSFTESACLL LIQPHYASDL DKVEGLTFQQ NSLNWMKKLS PRTIHLTMPQ LVLQGSYDLQ DLLAQAEIPA ILHTELNQK LSNDRIRVGE VLNSIFFELE ADEREPTST QQLNKPEVLE VTLNRPFLFA VYDQSATALH FLGRVANPLS TART DYKDDD DK.		
Solubility	It is recommended to add 200 $\mu$ l deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. SERPINA8 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Filtered (0.4 $\mu$ m) and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.		

**Introduction**

Serpin Peptidase Inhibitor, Clade A Member 8 (SERPINA8), which is a pre-angiotensinogen or angiotensinogen precursor, is expressed in the liver and cleaved by the enzyme renin in response to lowered blood pressure. The ensuing product, angiotensin I, is at that point cleaved by angiotensin converting enzyme (ACE) to produce the physiologically active enzyme angiotensin II. SERPINA8 protein is involved in maintaining blood pressure and in the pathogenesis of essential hypertension and

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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preeclampsia. SERPINA8 gene mutations are linked with susceptibility to essential hypertension, and may cause renal tubular dysgenesis, which is a severe disorder of renal tubular development. Defects in the SERPINA8 gene are also linked with non-familial structural atrial fibrillation, and inflammatory bowel disease.

### 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

SERPINA8 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (a.a 34-485) containing a total of 462 amino acids, having a molecular mass of 51.0kDa (calculated) and fused to a 2 a.a C-terminal linker and an 8 a.a Flag tag at C-Terminus. The Human SERPINA8 is purified by proprietary chromatographic techniques.

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