9051 Mira Mesa Blvd, #910094
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SERPINA8 Human

Serpin Peptidase Inhibitor, Clade A Member 8 Human Recombinant RCP2042

Product Overview

Name	SERPINA8 Human

Description

Serpin Peptidase Inhibitor, Clade A Member 8 Human Recombinant

Accession (Primary)	P01019

Synonyms

Angiotensinogen, Serpin A8, AGT, SERPINA8, ANHU.

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 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.

Source

HEK 293.

Physical Appearance

Filtered White lyophilized (freeze-dried) powder.

Formulation

Filtered (0.4 μm) and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.

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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

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DRVYIHPFHL VIHNESTCEQ LAKANAGKPK DPTFIPAPIQ AKTSPVDEKA LQDQLVLVAA KLDTEDKLRA AMVGMLANFL GFRIYGMHSE LWGVVHGATV LSPTAVFGTL ASLYLGALDH TADRLQAILG VPWKDKNCTS RLDAHKVLSA LQAVQGLLVA QGRADSQAQL LLSTVVGVFT APGLHLKQPF VQGLALYTPV VLPRSLDFTE LDVAAEKIDR FMQAVTGWKT GCSLTGASVD STLAFNTYVH FQGKMKGFSL LAEPQEFWVD NSTSVSVPML SGMGTFQHWS DIQDNFSVTQ VSFTESACLL LIQPHYASDL DKVEGLTFQQ NSLNWMKKLS PRTIHLTMPQ LVLQGSYDLQ DLLAQAELPA ILHTELNLQK LSNDRIRVGE VLNSIFFELE ADEREPTEST QQLNKPEVLE VTLNRPFLFA VYDQSATALH FLGRVANPLS TART DYKDDD DK .

Solubility

It is recommended to add 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.

Precautions

SERPINA8 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01019)