

Recombinant Human Angiotensinogen, His-tagged

Cat. No. AGT-2182H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Angiotensinogen(Ala155~Lys355), fused with N-terminal His-Tag, was expressed in Prokaryotic expression.
Species	Human
Source	E.coli
ProteinLength	155-355 a.a.
Description	The protein encoded by this gene, pre-angiotensinogen or angiotensinogen precursor, is expressed in the liver and is cleaved by the enzyme renin in response to lowered blood pressure. The resulting product, angiotensin I, is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II. The protein is involved in maintaining blood pressure and in the pathogenesis of essential hypertension and preeclampsia. Mutations in this gene are associated with susceptibility to essential hypertension, and can cause renal tubular dysgenesis, a severe disorder of renal tubular development. Defects in this gene have also been associated with non-familial structural atrial fibrillation, and inflammatory bowel disease.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	24.5kDa
AA Sequence	The target protein is fused with N-terminal His-Tag, its sequence is listed

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below.MGHHHHHHSGSEF- ADRLQA ILGVPWKDKN CTSRLDAHKV LSALQAVQGL
LVAQGRADSQ AQLLLSTVVG VFTAPGLHLK QPFVQGLALY TPVVLPRSLD
FTELDVAAEK IDRFMQAVTG WKTGCSLMGA SVDSTLAFNT YVHFQGKMKG
FSLLAEPQEF WVDNSTSVSV PMLSGMGTFQ HWSIDIQDNFS VTQVPFTESA
CLLLIQPHYA SLDLKD

Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	AGT angiotensinogen (serpin peptidase inhibitor, clade A, member 8) [Homo sapiens (human)]
Official Symbol	AGT
Synonyms	AGT; angiotensinogen (serpin peptidase inhibitor, clade A, member 8); ANHU;

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FLJ92595; FLJ97926; SERPINA8; angiotensinogen; serpin A8; angiotensin I; angiotensin II; pre-angiotensinogen; alpha-1 antiproteinase, antitrypsin; serine (or cysteine) proteinase inhibitor; Angiotensin-1; Ang I; Angiotensin-2; Ang II; Angiotensin-3; Ang III; Angiotensin III

Gene ID	183
mRNA Refseq	NM_000029
Protein Refseq	NP_000020
MIM	106150
UniProt ID	P01019
Chromosome Location	1q42.2
Pathway	Hypertrophic cardiomyopathy (HCM); Renin-angiotensin system; Vascular smooth muscle contraction
Function	acetyltransferase activator activity; growth factor activity; hormone activity; serine-type endopeptidase inhibitor activity; type 1 angiotensin receptor binding; type 2 angiotensin receptor binding