

Recombinant Human AGT Protein, His-tagged

Cat. No. AGT-572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AGT protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	485
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, body fluid and electrolyte homeostasis, 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	Lyophilized
Molecular Mass	50.6 kDa
AA Sequence	MRKRAPQSEMAPAGVSLRATILCLLAWAGLAAGDRVYIHPFHLVIHNESTCEQLAKA NAGKPKDPTFIPAPIQAKTSPVDEKALQDQLVLVAAKLDTEKLRAMVGMFLANFLG

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FRIYGMHSELWGVVHGATVLSPTAVFGTLASLYLGALDHTADRLQAILGVPWKDKN
 CTSRLDAHKVLSALQAVQGLLVAQGRADSQAQLLLSTVVGVFTAPGLHLKQPFVQG
 LALYTPVVLPRSLDFTELDVA AEKIDRFMQAVTGWKTGCSLMGASVDSTLAFNTYVH
 FQGKMKGFSLAEPQEFWVDNSTSVSVPMLSGMGT FQHWSDIQDNFSVTQVPFTE
 SACLLLIQPHYASDL DKVEGLTFQQNSLNWMKKLSPRTIHLTMPQLVLQGSYDLQDL
 LAQAELPAILHTELNLQKLSNDRIRVGEVLNSIFFELEADEREPTTESTQQLNKPEVLEV
 TLNRPFLFAVYDQSATALHFLGRVANPLSTA

Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name AGT angiotensinogen (serpin peptidase inhibitor, clade A, member 8) [Homo sapiens (human)]

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Official Symbol	AGT
Synonyms	AGT; angiotensinogen (serpin peptidase inhibitor, clade A, member 8); SERPINA8; angiotensinogen; alpha 1 antiproteinase; antitrypsin; serpin A8; angiotensin I; angiotensin II; pre-angiotensinogen; alpha-1 antiproteinase, antitrypsin; serine (or cysteine) proteinase inhibitor; ANHU;
Gene ID	183
mRNA Refseq	NM_000029
Protein Refseq	NP_000020
MIM	106150
UniProt ID	P01019

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