

Recombinant Human AGT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AGT-5413H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AGT MS Standard C13 and N15-labeled recombinant protein (NP_000020) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	53.1 kDa
AA Sequence	MRKRAPQSEMAPAGVSLRATILCLLAWAGLAAGDRVYIHPFHLVIHNESTCEQLAKA NAGKPKDPTFIPAPIQAKTSPVDEKALQDQLVLVAAKLDTEKLRAMVGMMLANFLG FRIYGMHSELWGVVHGATVLSPTAVFGTLASLYLGALDHTADRLQAILGVPWKDKN

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CTSRLDAHKVLSALQAVQGGLLVAQGRADSQAQLLLSTVVGFTAPGLHLKQPFVQG
 LALYTPVVLPRSLDFTELDVA AEKIDRFMQAVTGWKTGCSLTGASVDSTLAFNTYVH
 FQGKMKGFSLLAEPQEFWVDNSTSVSPMLSGMGTFQHWSDIQDNFSVTQVSFTE
 SACLLLIQPHYASDL DKVEGLTFQQNSLNWMKKLSPRTIHLTMPQLVLQGSYDLQDL
 LAQAELPAILHTELN LQKLSNDRIRVGEVLNSIFFELEADEREPTTESTQQLNKPEVLEV
 TLNRPFLFAVYDQSATALHFLGRVANPLSTATRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name AGT angiotensinogen [Homo sapiens (human)]

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

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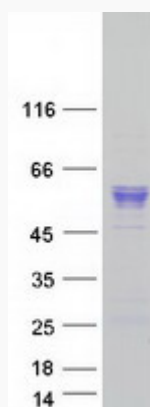
mRNA Refseq [NM_000029](#)

Protein Refseq [NP_000020](#)

MIM [106150](#)

UniProt ID [P01019](#)

SDS-PAGE



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