

Recombinant Full Length Human AGT Protein, C-Flag-tagged

Cat. No. AGT-78HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human AGT Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	49.7 kDa
AA Sequence	MRKRAPQSEMAPAGVSLRATILCLLAWAGLAAGDRVYIHPFHLVIHNESTCEQLAKA NAGKPKDPTFIPA PIQAKTSPVDEKALQDQLVLVAAKLDTEKLRAMVGMLANFLG FRIYGMHSELWGVVHGATVLSPTAVF GTLASLYLGALDHTADRLQAILGVPWKDKN

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CTSRLDAHKVLSALQAVQGGLLVAQGRADSQAQLLLSTVVG VFTAPGLHLKQPFVQG
 LALYTPVVLPRSLDFTELDVA AEKIDRFMQAVTGWKTGCSLTGASVDSTLAFNT YVH
 FQGKMKGFSLLAEPQEFWVDNSTSVSVPMLSGMGTFQHWSDIQDNFSVTQVSFTE
 SACLLLIQPHYA SLDKVEGLTFQQNSLNWMKKLSPRTIHLTMPQLVLQGSYDLQDL
 LAQAELPAILHTELNQKLSNDRIR VGEVLNSIFFELEADEREPTTESTQQLNKPEVLE
 VTLNRPFLFAVYDQSATALHFLGRVANPLSTATRTRPLEQKLISEEDLAANDILDYKD
 DDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein
Protein Pathways	Renin-angiotensin system
Full Length	Full L.

GENE INFORMATION

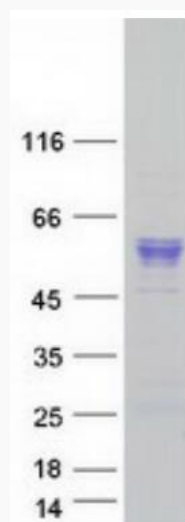
Gene Name	AGT angiotensinogen [Homo sapiens (human)]
Official Symbol	AGT

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Synonyms	ANHU; hFLT1; SERPINA8
Gene ID	183
mRNA Refseq	NM_001382817.3
Protein Refseq	NP_001369746.2
MIM	106150
UniProt ID	P01019



Coomassie blue staining of purified AGT protein.

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