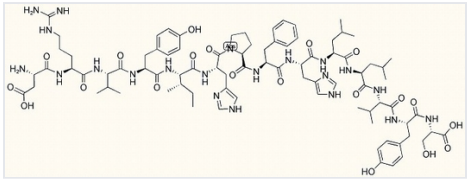
Angiotensinogen (Porcine) Peptide – (1-14) Synthetic Peptide, >95% Purity

PRODUCT OVERVIEW

Product Name	Angiotensinogen (AGT), Peptide
Full Product Name	Angiotensinogen (1-14) (Porcine)
Product Gene Name	AGT peptide
Sequence	Asp-Arg-Va l-Tyr-Ile- His-Pro-Ph e-His-Leu- Leu-Val-Ty r-Ser
Host	Synthetic
Form/Format	Lyophilized powder
Purity/Purification	> 95%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	1759.1
OMIM	106150
CAS Number	64315-16-8
Molecular Formula	C85H123N21O20
Related Product Information for AGT peptide	MBS8246102 is a peptide targeting AGT. Also known as Angiotensinogen (1-14) (Porcine). Host: Synthetic. Peptide to Angiotensinogen (1-14) (Porcine)
Other Notes	Small volumes of AGT peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Structure of AGT peptide

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGT. It may not necessarily be applicable to this product.

NCBI GI #	532198
NCBI GeneID	183
NCBI Accession #	AAA51679.1
UniProt Secondary Accession #	Q16358; Q16359; Q96F91
UniProt Related Accession #	P01019
NCBI Official Full Name	angiotensinogen
NCBI Official Synonym Full Names	angiotensinogen
NCBI Official Symbol	AGT

NCBI Official Synonym Symbols	ANHU; SERPINA8
UniProt Protein Name	Angiotensinogen
UniProt Synonym Protein Names	Serpin A8
Protein Family	Angiotensinogen
UniProt Gene Name	AGT
UniProt Synonym Gene Names	SERPINA8; Ang I; Ang II; Ang III; Ang IV
UniProt Entry Name	ANGT_HUMAN
NCBI Protein Information	angiotensinogen
NCBI Summary for AGT	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. [provided by RefSeq, Jul 2008]

UniProt Comments for AGT	angiotensin: Essential component of the renin-angiotensin system (RAS), a potent regulator of blood pressure, body fluid and electrolyte homeostasis. In response to lowered blood pressure, the enzyme renin cleaves angiotensinogen to produce angiotensin-1 (angiotensin 1-10). Angiotensin-1 is a substrate of ACE (angiotensin converting enzyme) that removes a dipeptide to yield the physiologically active peptide angiotensin-2 (angiotensin 1- 8). Angiotensin-1 and angiotensin-2 can be further processed to generate angiotensin-3 (angiotensin 2-8), angiotensin-4 (angiotensin 3-8). Angiotensin 1-7 is cleaved from angiotensin-2 by ACE2 or from angiotensin-1 by MME (neprilysin). Angiotensin 1-9 is cleaved from angiotensin-1 by ACE2. Genetic variations in AGT are a cause of susceptibility to essential hypertension (EHT). Essential hypertension is a condition in which blood pressure is consistently higher than normal with no identifiable cause. Defects in AGT are a cause of renal tubular dysgenesis (RTD). RTD is an autosomal recessive severe disorder of renal tubular development characterized by persistent fetal anuria and perinatal death, probably due to pulmonary hypoplasia from early-onset oligohydramnios (the Potter phenotype). Belongs to the serpin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1q42.2 Cellular Component: cytoplasm; extracellular region; extracellular space Molecular Function: growth factor activity; hormone activity; protein binding; receptor agonist activity; serine-type endopeptidase inhibitor activity; sodium channel regulator activity; superoxide-generating NADPH oxidase activator activity; type 1 angiotensin receptor binding; type 2 angiotensin receptor binding Biological Process: activation of NF-kappaB transcription factor; aging; angiotensin maturation; angiotensin mediated drinking behavior; angiotensin mediated regulation of renal output; artery smooth muscle contraction; blood vessel remodeling; cell surface receptor linked signal transduction; cell-cell signaling; cellular sodium ion homeostasis; cytokine secretion; female pregnancy; fibroblast proliferation; G-protein coupled receptor protein signaling pathway; G-protein signaling, coupled to cGMP nucleotide second messenger; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); kidney development; negative regulation of angiogenesis; negative regulation of cell growth; negative regulation of nerve growth factor receptor signaling pathway; negative regulation of tissue remodeling; nitric oxide mediated signal transduction; phospholipase C activation; positive regulation of blood pressure; positive regulation of cellular protein metabolic process; positive regulation of cytokine production; positive regulation of epidermal growth factor receptor signaling pathway; positive regulation of fibroblast proliferation; positive regulation of inflammatory response; positive regulation of NAD(P)H oxidase activity; positive regulation of nitric oxide biosynthetic process; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of superoxide release; positive regulation of transcription, DNA-dependent; positive regulation of vasodilation; regulation of blood pressure; regulation of calcium ion transport; regulation of cell growth; regulation of cell proliferation; regulation of heart rate; regulation of long-term neuronal synaptic plasticity; regulation of norepinephrine secretion; regulation of transmission of nerve impulse; regulation of vasoconstriction; renal system process; renin-angiotensin regulation of aldosterone production; renin-angiotensin regulation of blood vessel size; renin-angiotensin regulation of blood volume; response to muscle activity involved in regulation of muscle adaptation; smooth muscle cell proliferation; stress-activated MAPK cascade; vasodilation Disease: Hypertension, Essential; Renal Tubular Dysgenesis
Research Articles on AGT	**1.** The AGT polymorphism did not modify the onset of strokes or migraine in our CADASIL sample
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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