

Native Human Angiotensinogen

Cat. No. AGT-152H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified native Human Angiotensinogen.
Species	Human
Source	Human Plasma
Description	Angiotensinogen, also known as AGT and SERPINA8, is a member of the serpin family. It is an α-2-globulin that is produced constitutively and released into the circulation mainly by the liver. Angiotensinogen is a essential component of the renin-angiotensin system (RAS) and a potent regulator of blood pressure. It is expressed by the liver and secreted in plasma. Angiotensinogen is cleaved into three chains: Angiotensin-1 (Ang I), Angiotensin-2 (Ang II), and Angiotensin-3 (Ang III). Angiotensin-1 is a substrate of ACE (angiotensin converting enzyme) that removes a dipeptide to yield the physiologically active peptide angiotensin-2. Angiotensin-1 and angiotensin-2 can be further processed to generate angiotensin-3, angiotensin-4.
Form	Lyophilized in Sodium Phosphate Buffer
Molecular Mass	61-65 kDa
Storage	2-8 centigrade.
Concentration	>0.2 mg/mL before lyophilization

GENE INFORMATION

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Gene Name	AGT angiotensinogen (serpin peptidase inhibitor, clade A, member 8) [Homo sapiens]
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
UniProt ID	P01019
Chromosome Location	1q42.2
Pathway	ACE Inhibitor Pathway, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem;
Function	acetyltransferase activator activity; growth factor activity; hormone activity; hormone activity; serine-type endopeptidase inhibitor activity; type 1 angiotensin receptor binding; type 2 angiotensin receptor binding;

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