

## AGT

### Native Human Angiotensinogen

<b>Catalog No.</b>	CSI14137A CSI14137B	<b>Quantity:</b>	100 µg 1.0 mg
<b>Alternate Names:</b>	Angiotensinogen, Serpin A8		
<b>Description:</b>	<p>Angiotensinogen (AGT) is a glycoprotein found in plasma at a concentration of 2.8-7.1 mg per 100mL in healthy individuals. AGT is produced primarily by the liver but also is synthesized in the brain, large arteries, kidneys and adipose tissue. In plasma it exists as a monomeric form (55-65 kDa) as well as a high molecular mass form (200-550 kDa). In non-pregnant individuals with normal blood pressure, the high molecular mass form accounts for 3% of total circulating AGT. In the first half of pregnancy the total AGT increases by 4-fold and the high molecular mass form increases by 20-fold. Up to 80% of the total AGT in amniotic fluid is the high molecular mass form.</p> <p>Angiotensinogen is an essential component of the renin-angiotensin system, a potent regulator of blood pressure, body fluid and electrolyte homeostasis. It functions as the substrate for human renin and is the precursor molecule for Angiotensins 1,2,3,4, 1-9, 1-7, 1-5 and 1-4. AGT is also a member of the SERPIN family but it is not known to possess protease-inhibitory activity. Levels in plasma are increased by plasma corticosteroid, estrogen, thyroid hormone and angiotensin-2 levels.</p>		
<b>UniProt ID:</b>	P01019		
<b>Source:</b>	Human Plasma		
<b>Molecular Weight:</b>	55-56 kDa		
<b>Formulation:</b>	Lyophilized from 30 mM Sodium Phosphate, pH 6.8		
<b>Purity:</b>	>95% pure by SDS-PAGE.		
<b>Volume:</b>	Lot specific volume, prior to lyophilization		
<b>Extinction Coefficient:</b>	$E^{0.1\%}_{280nm} = 0.92$		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Prepare the original volume with deionized water.		
<b>Storage &amp; Stability:</b>	<p>Stable at 2-8°C for shipping. Store at -20°C to -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C.</p> <p><b>Avoid repeated freeze-thaw cycles.</b></p>		
<b>Certification:</b>	Prepared from plasma shown to be non-reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA-required tests.		

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