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## Datasheet for ABIN7320309 AGT Protein (His tag)

Image



#### Overview

Quantity:	100 µg
Target:	AGT
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGT protein is labelled with His tag.

#### Product Details

Purpose:	Recombinant Mouse SerpinA8/AGT Protein (His Tag)
Sequence:	Met 1-Val 477
Characteristics:	A DNA sequence encoding the mouse AGT (P11859) (Met 1-Val 477) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 96 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.

#### Target Details

Target:	AGT
Alternative Name: SerpinA8/AGT (AGT Products)	
Background:	Background: Angiotensinogen, also known as AGT and SerpinA8, is a member of the serpin family. It is an $\alpha$ -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

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(RAS) and a potent regulator of blood pressure. Angiotensinogen can be schematically
considered to consist of a combination of an angiotensin I (Ang I) function, located at the N- $$
terminal end, and the presence of a serpin (serine protease inhibitor) structure at the opposite
end. 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. Angiotensin 1-7 is cleaved from angiotensin-2 by ACE2. Angiotensin-2 acts
directly on vascular smooth muscle as a potent vasoconstrictor, affects cardiac contractility
and heart rate through its action on the sympathetic nervous system. Defects in AGT are
associated with susceptibility to essential hypertension and renal tubular dysgenesis (RTD).
Several serpins (antithrombin, maspin, pigment epithelial-derived factor, and kallistatin) have
been recently shown to exert an antiangiogenic activity, suggesting a common mechanism of
endothelial cell proliferation and migration. Angiotensinogen/AGT and its renin-cleaved product,
des(Ang I)AGT, are also angiogenesis inhibitors, both in vitro and in vivo at concentrations
within the range of those observed in plasma. The Angiotensinogen products, that is
angiotensin II and possibly angiotensin II-related products, have been found to act locally in
modulating adipose tissue growth in an autocrine/paracrine manner. The transient or chronic
overexpression of angiotensinogen in adipose tissue favors lipogenesis in adipocytes and leads
to a 'vicious' circle whereby adipose tissue development is further increased.
Synonym: Al265500;Angl;Angll;Aogen;Serpina8

Molecular Weight:	50.8 kDa
UniProt:	P11859
Pathways: JAK-STAT Signaling, ACE Inhibitor Pathway, EGFR Signaling Pathway, Peptide Hormone   Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones, Regulation of   Metabolism by PPARalpha, Protein targeting to Nucleus, Feeding Behaviour, Monocarbox   Acid Catabolic Process, Dicarboxylic Acid Transport, Positive Regulation of Response to I   Damage Stimulus, Regulation of long-term Neuronal Synaptic Plasticity	
Application Details	
Restrictions:	For Research Use only
Handling	

Format:

Lyophilized

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Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

### Images



Western	Blotting	

Image 1.