

## Recombinant Human APOA2, His-tagged

Cat. No. APOA2-95H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Apolipoprotein A-II/ApoA2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Gln24-Gln100) of Human APOA2 fused with a polyhistidine tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	24-100 a.a.
<b>Description</b>	This gene encodes apolipoprotein (apo-) A-II, which is the second most abundant protein of the high density lipoprotein particles. The protein is found in plasma as a monomer, homodimer, or heterodimer with apolipoprotein D. Defects in this gene may result in apolipoprotein A-II deficiency or hypercholesterolemia.
<b>AA Sequence</b>	QAKEPCVESLVSQYFQTVTDYGKDLMEKVKSPQLQAEAKSYFEKSKEQLTPLIKKAG TELVNFLS YFVELGTQPATQVDHHHHHH
<b>Endotoxin</b>	Less than 0.1 ng/g (1 IEU/g).
<b>Purity</b>	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
<b>Storage</b>	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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**Shipping** The product is shipped at ambient temperature.

## GENE INFORMATION

**Gene Name** [APOA2 apolipoprotein A-II \[ Homo sapiens \(human\) \]](#)

**Official Symbol** APOA2

**Synonyms** APOA2; apolipoprotein A-II; apoAII; Apo-AII; ApoA-II; apolipoprotein A-II; apolipoprotein A2; OTTHUMP00000032244; Apolipoprotein A-II; Apolipoprotein A2

**Gene ID** [336](#)

**mRNA Refseq** [NM\\_001643](#)

**Protein Refseq** [NP\\_001634](#)

**MIM** [107670](#)

**UniProt ID** P02652

**Chromosome Location** 1q23.3

**Pathway** Chylomicron-mediated lipid transport; Fatty acid; Lipid digestion; Lipoprotein metabolism; Metabolism of lipids and lipoproteins; PPAR signaling pathway; Regulation of Lipid Metabolism by Peroxisome proliferator-activated receptor alpha (PPARalpha);

**Function** apolipoprotein receptor binding; cholesterol binding; contributes to cholesterol transporter activity; high-density lipoprotein particle receptor binding; lipase inhibitor

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activity; lipid binding; lipid transporter activity; phosphatidylcholine binding;  
phosphatidylcholine-sterol O-acyltransferase activator activity; phospholipid binding;  
protein binding; protein heterodimerization activity; protein homodimerization activity

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