

# Product information



## APOC1, 27-83aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2554

**Full name:** Apolipoprotein C-I precursor

**NCBI Accession No.:** NP\_001636

**Description:** APOC1 is a member of the apolipoprotein C family. This gene is expressed primarily in the liver, and it is activated when monocytes differentiate into macrophages. A pseudogene of this gene is located 4 kb downstream in the same orientation, on the same chromosome. It is mapped to chromosome 19, where it resides within an apolipoprotein gene cluster. Alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined. APOC1 has a length of 57 amino acids normally found in plasma and responsible for the activation of esterified lecithin cholesterol with an important role in the exchange of esterified cholesterol between lipoproteins and in removal of cholesterol from tissues. Its main function is inhibition of CETP, probably by altering the electric charge of HDL molecules. Recombinant human APOC1 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p><b>Form:</b> Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol.</p> <p><b>Molecular Weight:</b> 9 kDa (80aa) confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 90% by SDS - PAGE</p> <p><b>Concentration:</b> 0.25 mg/ml (determined by Bradford assay)</p>	<p>(kDa) 70 57 40 28 18 13.5 8.5 15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b> MGSSHHHHHH SSGLVPRGSH MGSTPDVSSA LDKLKEFGNT LEDKARELIS RIKQSELSAK MREWFSETFQ KVKEKLIKIDS</p>	

### General references:

Gautier T, Masson D, *et al.* (2000). *J Biol Chem.* 1;275(48):37504-9.

Kamino K, Yoshiiwa A, *et al.* (1996). *Gerontology.* Suppl 1:12-9.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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