



## Apolipoprotein A-V, human recombinant (rhuRAP3)

**Catalog No:** 99930  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Apolipoprotein A-V, Apo-AV, ApoA-V, Apolipoprotein A5, Regeneration-associated protein 3, APOA5, RAP3, APOAV

### Background

ApoA5 is an important regulator of serum triglyceride concentrations. An ApoA5 mouse knock-out model produced an approximately four fold increase in serum triglycerides, whereas a knock-in model human ApoA5 produced 50-70% lower concentrations of mouse serum triglycerides. Furthermore, peroxisome proliferator-activated receptor agonists, which are used clinically to lower serum triglyceride concentrations, cause increased ApoA5 mRNA expression. There is little known about ApoA5 protein in human serum. Lately, it was established that ApoA5 is present in the human serum and it can be detected by polyclonal antibodies against both the NH<sub>2</sub> and COOH termini, but at much lower concentration than other apolipoproteins.

### Description

APOA5 Human Recombinant, produced in *E. coli*, is a single, non-glycosylated polypeptide chain containing 366 amino acids (24-366 aa). It has a molecular mass of 41.3 kDa. APOA5 is fused to a 23 amino acid His-tag at N-terminus and is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered, colorless solution.

### Formulation

APOA5 protein solution (0.25 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4 M urea.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSRKGFWDY FSQTSQDKGR VEQIHQQKMA REPATLKDSL EQDLNMMNKF LEKLRPLSGS  
EAPRLPQDPV GMRRQLQEEL EEVKARLQPY MAEAHELVGW NLEGLRQQLK PYTMDLMEQV ALRVQELQEQ LRVVGEDTKA  
QLLGGVDEAW ALLQGLQSRV VHHTGRFKEL FHPYAESLVS GIGRHHVQELH RSVAPHAPAS PARLSRCVQV LSRKLTCLKAK  
ALHARIQQNL DQLREELSRA FAGTGTEEGA GPDPQMLSEE VRQRLQAFRQ DTYLQIAAFT RAIDQETEEV QQQLAPPPPG  
HSAFAPEFQQ TDSGKVL SKL QARLDDLWED ITHSLHDQGH SHLGDP

### Usage

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