NKMAXBio we support you, we believe in your research Recombinant mouse Apolipoprotein A1/APOA1 protein Catalog Number: ATGP3058

## **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 25-264aa

**UniProt No.** Q00623

NCBI Accession No. NP\_033822.2

Alternative Names Apolipoprotein A-I, Alp-1, apo-AI, Apoa-1, apoA-I, Brp-14,Ltw-1, Lvtw-1, Sep-1, Sep-2, Sep2, Apolipoprotein AI

# **PRODUCT SPECIFICATION**

Molecular Weight 30.3 kDa (263aa) confirmed by MALDI-TOF

**Concentration** 1mg/ml (determined by Bradford assay)

**Formulation** Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

**Purity** > 90% by SDS-PAGE

**Tag** His-Tag

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

#### Description

Apoal also known as Apolipoprotein A-I, is the major protein component of high density lipoprotein (HDL) in plasma. This protein promotes cholesterol efflux from tissues to the liver for excretion. And it is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. Defects in the Apoal are associated with HDL deficiency including Tangier disease. Recombinant mouse Apoal, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques



#### **Amino acid Sequence**

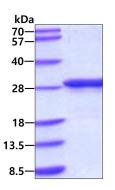
<MGSSHHHHHH SSGLVPRGSH MGS>DEPQSQW DKVKDFANVY VDAVKDSGRD YVSQFESSSL GQQLNLNLLE NWDTLGSTVS QLQERLGPLT RDFWDNLEKE TDWVRQEMNK DLEEVKQKVQ PYLDEFQKKW KEDVELYRQK VAPLGAELQE SARQKLQELQ GRLSPVAEEF RDRMRTHVDS LRTQLAPHSE QMRESLAQRL AELKSNPTLN EYHTRAKTHL KTLGEKARPA LEDLRHSLMP MLETLKTQVQ SVIDKASETL TAQ

### **General References**

Sontag TJ., et al. (2014) Arterioscler Thromb Vasc Biol, 34(2), 262-9.

# DATA

#### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.