NKMAXBio we support you, we believe in your research Recombinant human Apolipoprotein A1/APOA1 protein Catalog Number: ATGP0363

# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 25-267aa

**UniProt No.** P02647

NCBI Accession No. NP\_000030

Alternative Names APOA1, apolipoprotein A-I, Apolipoprotein A1, Apo-AI, ApoA-I

# **PRODUCT SPECIFICATION**

**Molecular Weight** 30.3 kDa (264aa) confirmed by MALDI-TOF

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

**Formulation** Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing, 10% glycerol

**Purity** > 95% 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

Apolipoprotein A-1, also known as APOA1, is a human protein with a specific role in lipid metabolism. It 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 ApoA-1 gene are associated with HDL deficiency including Tangier disease. Recombinant human Apolipoprotein A-1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



#### **Amino acid Sequence**

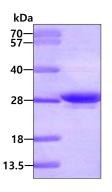
<MGSSHHHHHH SSGLVPRGSH> MDEPPQSPWD RVKDLATVYV DVLKDSGRDY VSQFEGSALG KQLNLKLLDN
WDSVTSTFSK LREQLGPVTQ EFWDNLEKET EGLRQEMSKD LEEVKAKVQP YLDDFQKKWQ EEMELYRQKV EPLRAELQEG
ARQKLHELQE KLSPLGEEMR DRARAHVDAL RTHLAPYSDE LRQRLAARLE ALKENGGARL AEYHAKATEH LSTLSEKAKP
ALEDLRQGLL PVLESFKVSF LSALEEYTKK LNTQ

#### **General References**

Wang J., et al. (2009). Int J Biol Sci. 5(7):637-46. Khadem-Ansari MH., et al. (2009). Singapore Med J. 50(6):610-3

## DATA

#### **SDS-PAGE**



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