

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.

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Amino acid Sequence

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

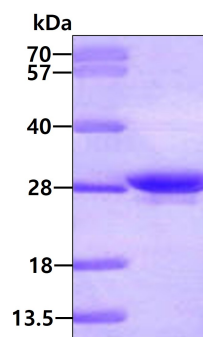
General References

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.