

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

Apoa1 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 Apoa1 are associated with HDL deficiency including Tangier disease. Recombinant mouse Apoa1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

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Amino acid Sequence

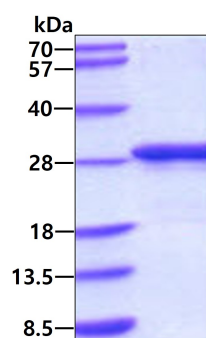
<MGSSHHHHH SSGLVPRGSH MGS>DEPQSQW DKVKDFANVY VDAVKDSGRD YVSQFESSL GQQLNLNLE
NWDTLGSTVS QLQERLGPLT RDFWDNLEKE TDWVRQEMNK DLEEVKQKVQ PYLDEFQKKW KEDVELYRQK
VAPLGAELQE SARQKLQELQ GRLSPVAEEF RDRMRTHVDS LRTQLAPHSE QMRESLAQRL AELKSNPTLN EYHTRAKTHL
KTLGEKARPA LEDLRHSLMP MLETLKTQVQ SVIDKASETL TAQ

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.