

Apoa1, 25-264aa , Mouse, His tag, E.coli

Cat.NO.: TP01192

3th Edition

Synonyms: Apolipoprotein A-I , Alp-1, apo-AI, ApoA-1, apoA-I, Brp-14, Ltw-1, Lvtw-1, Sep-1, Sep-2, Sep2, Apolipoprotein AI

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

Form: Liquid, In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSDPEQSQWDKVKDFANVYVDAVKDSGRDYVSQFESSSLGQQNLNLLLENW
DTLGSTVSQLQERLGPLTRDFWDNLEKETDWVRQEMNKDLEEVKQKVQPYLDEFQKKWKEDVELYRQKVAPLGA
ELQESARQKLQELQGRLSPVAEEFRDRMRTHVDSLRTQLAPHSEQMRESLAQRLAELKSNPTLNEYHTRAKTHLK
TLGEKARPALEDLRHSLMPMLETLKTQVQSVIDKASETLTAQ

Purity: > 95% by HPLC

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

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.