
Product Data Sheet

Product Name: APOA1 Mouse

Cat. No.: GP20048

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ApolipoproteinA-I; Apo-AI; ApoA-I; Apolipoprotein A1; ProapoA-I.		
Amino Acid Sequence	MGSSHHHHHSSGLVPRGSH MGSDEPQSQWDKVKDFANVY VDAVKDSGRD YVSQFESSSL GQQLNLNLE NWDTLGSTVS QLQERLGPLT RDFWDNLEKETDWVRQEMNK DLEEVKQKVQ PYLDEFQKKW KEDVELYRQK VAPLGAELQE SARQKLQELQ GRLSPVAEEFRDRMRTHVDS LRTQLAPHSE QMRESLAQRL AELKSNPTLN EYHTRAKTHL KTLGEKARPA LEDLRHSLMPMLETLKTQVQ SVIDKASETL TAQ.		
Formulation	APOA1 protein solution (1mg/ml) containing Phosphatebuffered saline (pH7.4), 20% glycerol and 1mM DTT.		

Introduction

APOA1 (Apolipoprotein A-1) is a protein with a specific role in lipid metabolism being the main protein component of HDL in the plasma. APOA1 promotes cholesterol efflux from tissues to the liver for excretion. Furthermore, APOA1 is a cofactor for LCAT, which is responsible for the formation of most plasma cholesteryl esters. In addition, APOA1 activates spermatozoa motility as part of the SPAP complex. The APOA1 gene is strongly linked with two other apolipoprotein genes on chromosome 11. Defects in the APOA1 gene are linked to HDL deficiency including Tangier disease, and with systemic non-neuropathic amyloidosis. High levels of APOA1 are linked to the manifestation of asthma and atopy.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

APOA1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 263 amino acids (25-264a.a) and having a molecular mass of 30.3kDa. APOA1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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