

Human Apolipoprotein AI (Apo AI) Reference Standard

Cat. No. APOA1-2H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Each sample is the lyophilized of Apo AI solution without additives. The material is kept under nitrogen gas in sealed glass ampoules.
Species	Human
Usage	The material is intended to be used as a pure calibrant to establish traceability of serum-based reference materials which in turn will be employed in routine laboratory assays. If the material is used for calibration of in vitro diagnostic devices the commutability has to be assessed by the user. To make the material ready for use, it has to be reconstituted according to the following procedure: Reconstitution buffer 0.15 mol/L NaCl in 0.1 mol/L Na₂HPO₄/NaH₂PO₄, pH=7.4 Reconstitution procedure 1. Allow ampoule to equilibrate for 1 hour at room temperature prior to opening. 2. After ensuring that the contents are entirely in the body of the ampoule, break the snap top. 3. Slowly add 1.0 mL of the reconstitution buffer to the ampoule using a calibrated dilutor. The accuracy of the dispenser is required to be better than $\pm 0.5\%$ as assessed by multiple weighings of water. 4. Swirl the ampoule gently and intermittently for five minutes to ensure complete dissolution of the contents. Following reconstitution, cover the ampoule with an airtight seal and store for no longer than three days at -20 °C prior to its use.
Quality Control Test	Quantitative amino acid analysis
Notes	The material has been tested for the presence of Hepatitis B surface Antigen and for HIV1/HIV2 antibodies and found negative. However, the material is of human origin

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

and must be handled with adequate care. It is intended for in vitro analysis only.

Storage

Upon arrival, the material shall be stored at -20 °C for not more than 12 months until use. However, the European Commission cannot be held responsible for changes that happen during storage of the material at the customer's premises, especially of opened samples.

Concentration

Amount of substance concentration: 37.7 µmol/L Mass concentration: 1.06 g/L

GENE INFORMATION

Gene Name

APOA1 apolipoprotein A-I [Homo sapiens]

Official Symbol

APOA1

Synonyms

APOA1; apolipoprotein A-I; apo-AI; apoA-I; MGC117399;

Gene ID

335

mRNA Refseq

NM_000039

Protein Refseq

NP_000030

MIM

107680

UniProt ID

P02647

**Chromosome
Location**

11q23-q24

Pathway

ABC-family proteins mediated transport, organism-specific biosystem; ABCA

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transporters in lipid homeostasis, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Amyloids, organism-specific biosystem; Chylomicron-mediated lipid transport, organism-specific biosystem; Disease, organism-specific biosystem;

Function

apolipoprotein A-I receptor binding; apolipoprotein receptor binding; beta-amyloid binding; cholesterol binding; contributes_to cholesterol transporter activity; cholesterol transporter activity; enzyme binding; high-density lipoprotein particle binding; high-density lipoprotein particle receptor binding; identical protein binding; lipid transporter activity; phosphatidylcholine-sterol O-acyltransferase activator activity; phospholipid binding; protein binding;

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