



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Native Human Apolipoprotein AI

Catalog No.
MD-26-0001P

Source
Human plasma

Description:	Human Apolipoprotein AI Human Apolipoprotein AI (Apo AI)
Source:	High-density lipoprotein (HDL) from pooled Human plasma
Format:	Purified, Liquid
Purification:	>99% pure (SDS-PAGE) Isolated by ultracentrifugal flotation between densities 1.063–1.21g/ml, lyophilized then subjected to repeated ethanol extraction. The precipitated protein was dried under nitrogen then dissolved in 6M guanidine hydrochloride -25mM DTT. Product was then subjected to Sephacryl S200 filtration and eluted.
Concentration:	2.0mg/ml (OD280nm, $E^{0.1\%} = 1.13$)
Buffer:	3M Guanidine hydrochloride, 10mM Tris, 5mM DTT, pH 8.0
Preservative:	None
Application:	Apo AI can be re-natured into PBS, TBS and other common buffers by dialysis using a membrane with a nominal molecular weight cut-off of 14,000 or less. This should be performed in a cold room. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Storage:	Short-term store at 2–8°C. Long term store at -20°C. Avoid multiple freeze/thaw cycles. Storage of dialyzed Apo AI in PBS or TBS with 1mM EDTA and 0.1% Sodium Azide should be stored for up to 2 weeks at 2–8°C. Storage of Apo AI in PBS or TBS at -20°C may lead to precipitation when thawed.
Inactivation:	Not applicable

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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References:

The references listed below are for research purposes only.

1. Chen, W., et al., (2001), "Preferential ATP-binding Cassette Transporter A1-mediated Cholesterol Efflux from Late Endosomes/Lysosomes", *The Journal of Biological Chemistry*, **276**(47): 43564-43569
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4. Martinez, L.O., (2003), "Phosphorylation of a Pest Sequence in ABCA1 Promotes Calpain Degradation and Is Reversed by ApoA-I", *The Journal of Biological Chemistry*, **278**(39): 37368-37374
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6. Ishiguro, H., et al., (2001), "Retrovirus-mediated Expression of Apolipoprotein A-I in the Macrophage Protects against Atherosclerosis in Vivo", *The Journal of Biological Chemistry*, **276**(39): 36742-36748.

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