

## Flogen<sup>®</sup> Recombinant Human Apolipoprotein A-I (rHuApoA-I)

<b>Catalog Number:</b>	PGR0602-019
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 28.1 kDa, a single non-glycosylated polypeptide chain containing 243 amino acids.
<b>Quantity:</b>	20µg/100µg/1000µg
<b>AA Sequence:</b>	DEPPQSPWDR VKDLATVYVD VLKDSGRDYV SQFEGSALGK QLNLKLLDNW DSVTSTFSKL REQLGPVTQE FWDNLEKETE GLRQEMSKDL EEVKAKVQPY LDDFQKKWQE EMELYRQKVE PLRAELQEGA RQKLHELQEK LSPLGEEMRD RARAHVDA LR THLAPYSDEL RQRLAARLEA LKENG GARLA EYHAKATEHL STLSEKAKPA LEDLRQGLLP VLESFKVSFL SALEEYTKKL NTQ
<b>Purity:</b>	> 98 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Data Not Available.
<b>Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Endotoxin:</b>	Less than 0.1 EU/µg of rHuApoA-I as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.
<b>Storage:</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. <b>Avoid repeated freeze/thaw cycles.</b>
<b>Usage:</b>	This material is for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

### ***Human Apolipoprotein A-I***

Apolipoprotein A-I encoded by the APOA1 gene is the major protein component of high density lipoprotein (HDL) in plasma. It has a specific role in lipid metabolism. Apolipoprotein A-I participates in the reverse transport of cholesterol from tissues to the liver for excretion by promoting cholesterol efflux from tissues and by acting as a cofactor for the lecithin cholesterol acyltransferase (LCAT). Apolipoprotein A-I is also isolated as a prostacyclin (PGI<sub>2</sub>) stabilizing factor and thus may have an anticlotting effect. Apolipoprotein A-I has been shown to interact with ABCA1, GPLD1 and PLTP. Apolipoprotein A-I binds to lipopolysaccharide or endotoxin and has a major role in the anti-endotoxin function of HDL. Mature human ApoA-1 shares 65 % and 62 % a.a. sequence identity with murine and rat ApoA-1, respectively. It has an approximate molecular weight of 28.1 kDa.