HDL Preβ-1 (HDL Prebeta 1)

**Analyte:** Pre β1 High-Density Lipoprotein

**Specimen Type:** EDTA plasma with stabilizer recommended; please contact nexelis for collection information

**Optimum Volume:** 2 mL

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Storage</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-8°C</td>
<td>-20°C</td>
<td>-70°C</td>
</tr>
<tr>
<td>5 days</td>
<td>N.A.</td>
<td>1 year</td>
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</table>

**Reporting units:** mg/dL

**Method:** ELISA

**Biological or Clinical Significance:**

Pre β1-HDL is a discoid-shaped HDL particle of approximately 67 kDa that migrates with pre-β electrophoretic mobility on agarose gels. It contains apolipoprotein A-I (Apo AI), phospholipids and unesterified cholesterol. Pre β1-HDL removes cholesterol from peripheral tissues through the reverse cholesterol transport (RCT). Depletion of Pre β1-HDL results in reduced in vitro cholesterol efflux from fibroblasts.

The concentration of Pre β1-HDL in plasma is a reflection of the rate of its formation (result of cholesterol efflux and lipolysis of triglyceride-rich lipoproteins) and remodeling (through the action of LCAT). Thus, the level of Pre β1-HDL could reflect the sum of both of these steps.

**Principle of Test Method:**

The Pre β1-HDL assay is a sandwich ELISA.

**References:**