

## Recombinant Human APOA2 protein, His-tagged

**Cat. No.** APOA2-357H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human APOA2 protein (Ala19-Gln100), fused to His tag at C-terminus, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Apolipoprotein A-II(APO-A2) stabilize HDL (high density lipoprotein) structure by its association with lipids, and affect the HDL metabolism. It is produced by the liver and is involved in cholesteryl ester formation and cholesterol transport from tissues to the liver. Recent studies have established the interaction between APOA2 -256T>C polymorphism and dietary saturated fatty acids intake in relation to obesity on healthy individuals. Significant interaction between APOA2-saturated fatty acids intake and body mass index (BMI). The result of this study confirmed the interaction between APOA2 -256T>C polymorphism and SFAs intake with BMI in type 2 diabetic patients. |
| <b>Form</b>             | Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 11.2 kDa. The protein migrates as 11 kDa and 13 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Endotoxin</b>        | Less than 1.0 EU per ug by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

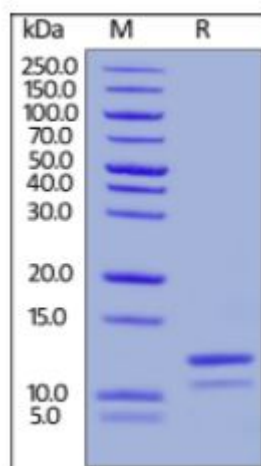
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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| <b>Reconstitution</b>   | <p>It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.</p>                                                                                                                                                                                       |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>        | APOA2                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>  | APOA2                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>         | APOA2; apolipoprotein A-II; apolipoprotein A2; apoAII; Apo-AII; ApoA-II                                                                                                                                                                                                                                                                                                    |
| <b>Gene ID</b>          | 336                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_001643                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_001634                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>              | 107670                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>       | P02652                                                                                                                                                                                                                                                                                                                                                                     |

**SDS-PAGE of  
APOA2-357H**



Human Apolipoprotein A-II, His Tag on SDS-PAGE under reducing (R) condition.  
The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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