## PRODUCT INFORMATION

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| **Target** | MSP1D1 |
| **Synonyms** | APOA1 |
| **Description** | Recombinant human MSP1D1(del H5) Protein with N-terminal 6×His tag |
| **Delivery** | In Stock |
| **Uniprot ID** | P02647 |
| **Expression Host** | HEK293 |
| **Tag** | N-6×His tag |
| **Molecular Characterization** | 6×His tag APOA1(Ser79-Gln267) del(Pro145-Ser166) |
| **Molecular Weight** | The protein has a predicted molecular mass of 21.2 kDa after removal of the signal peptide. The apparent molecular mass of His-MSP1D1(del H5) is approximately 15-25 kDa due to glycosylation. |
| **Purity** | The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining. |
| **Formulation & Reconstitution** | Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| **Storage&Shipping** | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| **Background** | MSP1D1 (Membrane Scaffold Protein 1D1) is derived from Apolipoprotein A-I (ApoA-I) and is used in the formation of nanodiscs, which are tools for studying membrane proteins in a controlled lipid environment.The "H" in H5 refers to a histidine residue at position 5 in the protein sequence. The "del" symbol indicates a deletion. |
| **Usage** | Research use only |
| **Conjugate** | Unconjugated |



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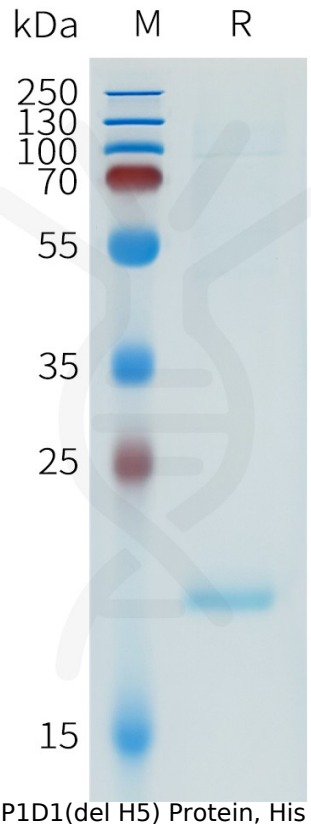


Figure 1. Human MSP1D1(del H5) Protein, His Tag on SDS-PAGE under reducing condition.



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