# Recombinant CD1A protein (His tag)

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| **Catalog Number** | 537438 |
| **Synonyms** | T-cell surface antigen T6/Leu-6; hTa1 thymocyte antigen; CD antigen CD1a |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | P06126 |
| **Molecular Weight** | Predictes a molecular mass of 34.00 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band. |

## Product Information

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| **Sequence Region** | 17-300 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >86%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 17-300 aa (P06126) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human CD1a (T-cell surface glycoprotein CD1a) Fragment (aa 17-300) is a high-purity protein designed for immunological research. This fragment encompasses the Ig-like domain, making it an ideal tool for studying lipid antigen presentation and T-cell receptor interactions in controlled experimental settings.<br>CD1a is an antigen-presenting protein that binds both self and non-self lipid and glycolipid antigens, presenting them to T-cell receptors on natural killer T-cells. It localizes to the cell membrane, membrane rafts, and endosome membranes, and undergoes intracellular trafficking between these compartments. This protein plays a critical role in immune recognition and response mechanisms. |