# Recombinant LFA3 protein (His tag)

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| **Catalog Number** | 546816 |
| **Synonyms** | Ag3; Surface glycoprotein LFA-3; CD antigen CD58 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | P19256 |
| **Molecular Weight** | Predictes a molecular mass of 23.09 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band. |

## Product Information

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| **Sequence Region** | 29-215 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, 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 29-215 aa (P19256) 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 CD58 (Lymphocyte function-associated antigen 3) Fragment (29-215) is a high-purity protein designed for immunology and cell interaction studies. This fragment encompasses the Ig-like domain, making it an ideal tool for investigating CD2-mediated signaling, T-cell activation, and intercellular adhesion mechanisms.<br>Lymphocyte function-associated antigen 3 (LFA-3/CD58) serves as a ligand for the T-lymphocyte CD2 glycoprotein, playing critical roles in thymocyte development, T-cell interactions with antigen-presenting cells, and T-lymphocyte rosetting with erythrocytes. The LFA-3/CD2 interaction primes responses in both CD2+ and LFA-3+ cells, making it fundamental to immune system communication. As a single-pass type I membrane protein, CD58 is positioned at the cell surface where it facilitates these essential cellular interactions. |