# Recombinant LEG4 protein (His tag)

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| **Catalog Number** | 537853 |
| **Synonyms** | Gal-4; Antigen NY-CO-27; L-36 lactose-binding protein; L36LBP; Lactose-binding lectin 4 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | P56470 |
| **Molecular Weight** | Predictes a molecular mass of 18.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band. |

## Product Information

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| **Sequence Region** | 1-151 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >89%, 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 1-151 aa (P56470) 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 Galectin-4 (Gal-4) Fragment (1-151) is a high-purity protein designed for functional studies. This fragment fully encompasses the Galectin 1 domain, making it an ideal tool for investigating lactose-binding activity and adherens junction assembly mechanisms in a controlled experimental setting. Galectin-4 (Gal-4), encoded by the LGALS4 gene in humans, is a lactose-binding lectin that interacts with lactose and structurally related sugars. It plays a significant role in cellular processes, particularly in the assembly and maintenance of adherens junctions, which are critical for cell-cell adhesion and tissue integrity. This recombinant fragment enables focused research on the functional properties of the Galectin 1 domain, supporting studies in cell adhesion, signaling, and carbohydrate recognition without the complexity of the full-length protein. |