

IL-T3 Protein, Mouse, Recombinant (His)

General Information

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| Synonyms: | leukocyte immunoglobulin like receptor B4 |
| Protein Construction: | Gly24-Lys238 |
| Species: | Mouse |
| Expression Host: | HEK293 Cells |
| Accession: | Q64281-1 |
| Molecular Weight: | 25.1 kDa (Predicted); 30-45 kDa (Due to glycosylation) |

QC Testing

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| Biological Activity: | Mouse LILRB4, His Tag immobilized on CM5 Chip can bind Mouse APOE, His Tag with an affinity constant of 5.08 nM as determined in SPR assay (Biacore T200). |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

LILRB4, also known as CD85k and LIR-5, ILT3, is an approximately 60 kDa transmembrane glycoprotein that negatively regulates immune cell activation. Mature human ILT3 consists of a 238 amino acid (aa) extracellular domain with two Ig-like domains, a 21 aa transmembrane segment, and a 168 aa cytoplasmic domain with 3 immunoreceptor tyrosine-based inhibitory motifs (ITIM). LILRB4 is receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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