

Recombinant Human LILRB4/CD85k/ILT3 Protein (aa 22-259, Fc Tag)

Catalog No. PKSH033604

Note: Centrifuge before opening to ensure complete recovery of vial contents.

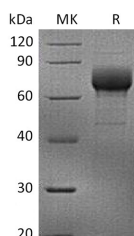
Description

| | |
|------------------------------------|---|
| Synonyms | Leukocyte immunoglobulin-like receptor subfamily B member 4; Mast cell surface Lyophilized from a 0.2 µm filtered solution of PBS; pH 7.4. glycoprotein Gp49B; CD85k; Lilrb4; Gp49b |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Gln22-Glu259 |
| Accession | Q8NHJ6 |
| Calculated Molecular Weight | 53.2 kDa |
| Observed molecular weight | 65-85 kDa |
| Tag | C-Fc |
| Bioactivity | Not validated for activity |

Properties

| | |
|-----------------------|---|
| Purity | > 90 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 90 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Mouse Leukocyte Immunoglobulin-like Receptor Subfamily B Member 4 (LILRB4/CD85k/ILT3) is an approximately transmembrane glycoprotein that negatively regulates immune cell activation. Mouse LILRB4 consists of a 215 amino acid (aa) extracellular domain with two Ig-like domains; a 22 aa transmembrane segment; and a 75 aa cytoplasmic domain with 3 immunoreceptor tyrosine-based inhibitory motifs (ITIM). Within the ECD; mouse LILRB4 shares 45% and 77% aa sequence identity with human and rat LILRB4; respectively. Alternative splicing of mouse LILRB4 generates a potentially soluble isoform that lacks the transmembrane segment. LILRB4 is expressed on dendritic cells (DC); monocytes; macrophages; and vascular endothelial cells (EC). Ligation of LILRB4 triggers ITIM-mediated inhibition of cellactivating signaling; leading to enhanced immune tolerance and reduced allogeneic graft rejection. Soluble LILRB4 induces the differentiation of CD8+ T suppressor cells (Ts) that can inhibit the effector functions of CD4+ Th cells and CD8+ CTL. In turn; CD8+ Ts cells induce LILRB4 up-regulation and a tolerogenic phenotype in monocytes; DC; and EC.