Data Sheet (Cat.No.TMPK-01110)

TargetMol

LILRB1/CD85j/ILT2 Protein, Human, Recombinant (aa 116-461, His)

General Information

Synonyms:	ILT-2;XXbac-BCX85G21.4;MIR7;ILT2FLJ37515;LILRB1;LIR1;CD85J;ILT2
Protein Construction:	Leu116-Val461
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8NHL6-1
Molecular Weight:	38.15 kDa (predicted). Due to glycosylation, the protein migrates to 55-68 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
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 a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent 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

LILRB1, also known as CD85j and IL-T2, is a 110 kDa transmembrane glycoprotein in the LILR immunoregulatory protein family. Mature human LILRB1 consists of a 438 amino acid (aa) extracellular domain (ECD) with 4 tandem Ig-like domains, a 21 aa transmembrane segment, and a 168 aa cytoplasmic domain with 4 inhibitory ITIM motifs. LILRB1 is a receptor for class I MHC antigens.

Reference

Apps R, et al. A homodimeric complex of HLA-G on normal trophoblast cells modulates antigen-presenting cells via LILRB1 [J]. European Journal of Immunology, 2007, 37(7):1924-1937.

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