Data Sheet (Cat.No.TMPK-00354)

TargetMol

LILRB3/CD85a Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	ILT-5;ILT5;LIR3;PIRB;LIR-3MGC138403;CD85a;LILRB3;HL9;LIR3CD85A
Protein Construction:	Gly24-Glu443
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O75022-1
Molecular Weight:	50 kDa (predicted). Due to glycosylation, the protein migrates to 60-72 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human LILRB3, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Anti-LILRB3 Antibody, hFc Tag with the EC50 of 12.5ng/ml determined by ELISA.
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

Leukocyte immunoglobulin-like receptor subfamily B (LILRB3), also known as ILT5, LIR3, and CD85a, is an immunoglobulin superfamily member that is involved in immune regulation. Subfamily B members have cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that inhibit signaling events via phosphatase SHP-1.LILRB3 may act as receptor for class I MHC antigens. Becomes activated upon coligation of LILRB3 and immune receptors, such as FCGR2B and the B-cell receptor.

Reference

Huang J, et al. Leukocyte Immunoglobulin-Like Receptors Maintain Unique Antigen-Presenting Properties of Circulating Myeloid Dendritic Cells in HIV-1-Infected Elite Controllers[J]. Journal of Virology, 2010, 84(18):9463-947

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