

**Synonym**

LILRB2,ILT4,LIR2,MIR10,CD85d

**Source**

Human LILRB2, Fc Tag (CDD-H5259) is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Val 461 (Accession # AAH36827).

Predicted N-terminus: Gln 22

**Molecular Characterization**

LILRB2(Gln 22 - Val 461) AAH36827	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 74.4 kDa. The protein migrates as 110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>85% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

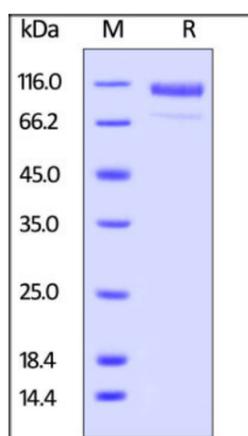
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

No activity loss was observed after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human LILRB2, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 85%.

**Background**

Leukocyte immunoglobulin-like receptor subfamily B member 2 (LILRB2) is also known as CD85 antigen-like family member D (CD85d), Immunoglobulin-like transcript 4 (ILT-4), Monocyte / macrophage immunoglobulin-like receptor 10 (MIR-10), which is a member of the the subfamily B class of LIR receptors. LILRB2 is receptor for class I MHC antigens. LILRB2 recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles. LILRB2 competes with CD8A for binding to class I MHC antigens. LILRB2 / CD85d inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions.

**References**

- (1) [Borges L., et al., 1997, J. Immunol. 159:5192-5196.](#)

- (2) [Fanger N.A., et al., 1998, Eur. J. Immunol. 28:3423-3434.](#)
- (3) [Shiroishi M., et al., 2003, Proc. Natl. Acad. Sci. U.S.A. 100:8856-8861.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.