

Synonym

IL-3 R Beta,CD131,Common beta Chain

Source

Human CD131, Fc Tag (CD1-H5256) is expressed from human 293 cells (HEK293). It contains AA Trp 17 - Trp 443 (Accession # [P32927-1](#)).
Predicted N-terminus: Trp 17

Molecular Characterization

CD131(Trp 17 - Trp 443) P32927-1	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 75.1 kDa. The protein migrates as 80-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 51 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Contact us for customized product form or formulation.

Reconstitution

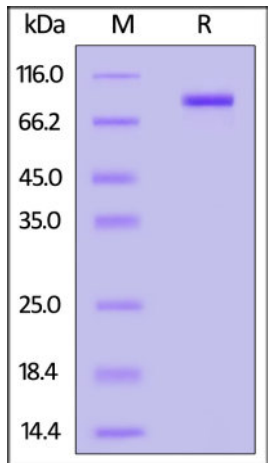
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

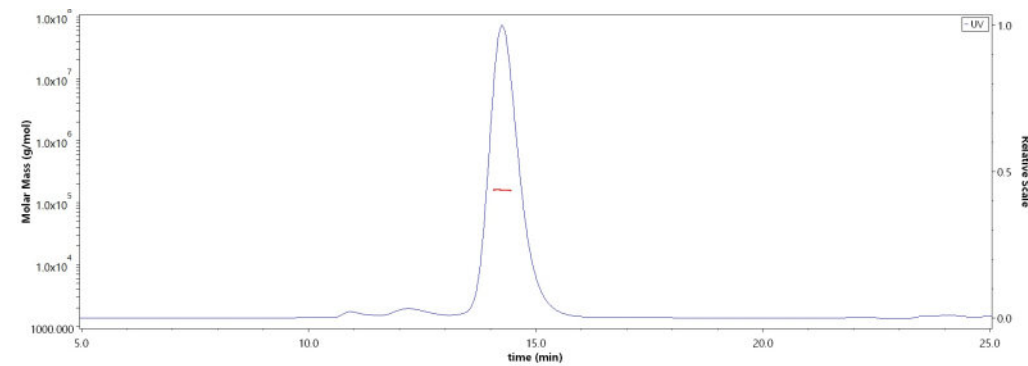
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human CD131, 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 95%.

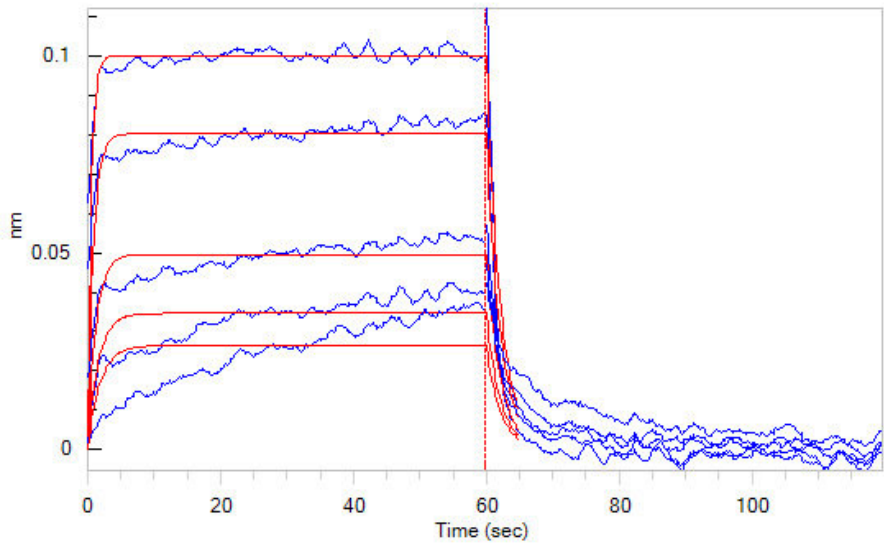
SEC-MALS



The purity of Human CD131, Fc Tag (Cat. No. CD1-H5256) is more than 85% and the molecular weight of this protein is around 150-175 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-BLI



Loaded Human CD131, Fc Tag (Cat. No. CD1-H5256) on Protein A Biosensor, can bind ActiveMax® Human GM-CSF, Tag Free (Cat. No. GMF-H4214) with an affinity constant of 7.4 μ M as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

CD131- the common β Subunit, is a member of the type 1 cytokine receptor family. There are three major classes of heteroreceptor complexes, where the receptor complex utilises a common shared receptor subunit as a signal-transducing chain along with a cy

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.