

Synonym

IFNAR2,IFNARB,IFNABR,IFN-R-2,IFN- α ,beta receptor 2

Source

Human IFNAR2, Fc Tag (IF2-H5255) is expressed from human 293 cells (HEK293). It contains AA Ile 27 - Lys 243 (Accession # [P48551-2](#)).

Predicted N-terminus: Ile 27

Molecular Characterization

| | |
|--------------------------------------|---------------------------------|
| IFNAR2(Ile 27 - Lys 243) P48551-2 | Fc(Pro 100 - Lys 330) P01857 |
|--------------------------------------|---------------------------------|

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 51.4 kDa. The protein migrates as 66-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m 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.

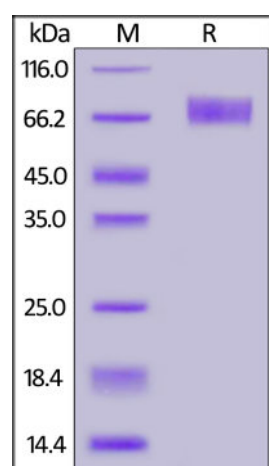
Storage

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

Please avoid repeated freeze-thaw cycles.

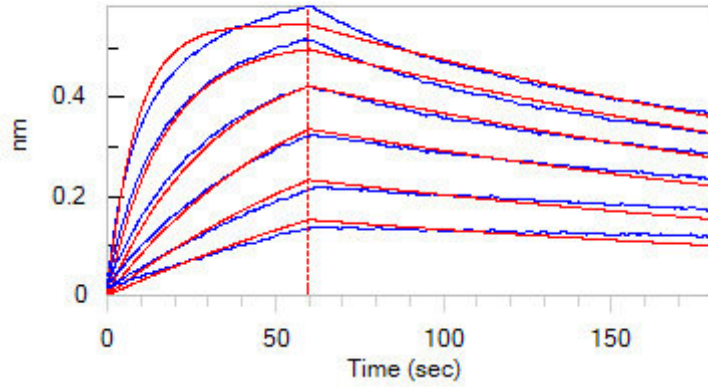
This product is stable after storage at:

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

SDS-PAGE

Human IFNAR2, 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%.

Bioactivity-BLI



Loaded Human IFN-alpha 1, His Tag (Cat. No. IFA-H52H9) on HIS1K Biosensor, can bind Human IFNAR2, Fc Tag (Cat. No. IF2-H5255) with an affinity constant of 19.5 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

Interferon alpha/beta receptor 2 (IFNAR2) is also known as IFN-alpha binding protein, IFN-alpha/beta receptor 2, Type I interferon receptor 2, IFNABR and IFNARB, which is a single-pass type I membrane protein and belongs to the type II cytokine receptor family. IFNAR2 can associate with IFNAR1 to form the type I interferon receptor. IFNAR2 is a receptor for interferons alpha and beta. IFNAR2 involves in IFN-mediated STAT1, STAT2 and STAT3 activation. Isoform 1 and isoform 2 of IFNAR2 are directly involved in signal transduction due to their association with the TYR kinase, JAK1. Isoform 3 of IFNAR2 is a potent inhibitor of type I IFN receptor activity. Genetic variations in IFNAR2 influence susceptibility to hepatitis B virus (HBV) infection.

Clinical and Translational Updates

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