

Recombinant Human IFNAR2/IFNABR Protein (His Tag)

Catalog No. PKSH031651

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms IFN-alpha-REC;IFN-R;IFNABR;IFNARB

Species Human

Expression Host

Sequence

Met 1-Lys 243

Accession

NP_997468.1

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Lys 243

NP_997468.1

Calculated Molecular Weight

College College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

College College

C

Bioactivity Measured by its ability to inhibit rh IFNβ mediated protection of WISH Human

amnion cells infected with vesicular stomatitis virus (VSV) to viral lysis. The EC50

for this effect is typically 1-4µg/mL.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

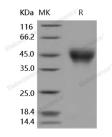
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com

Email: techsupport@elabscience.com

Elabscience Bionovation Inc.



A Reliable Research Partner in Life Science and Medicine

Interferon-alpha/beta receptor beta chain (IFNAR2) is a type I membrane protein that forms one of the two chains of a receptor for interferons alpha and beta. Binding and activation of the receptor stimulates Janus protein kinases; which in turn phosphorylate several proteins; including STAT1 and STAT2. Initial cell-surface IFNAR2 expression at diagnosis assessed by flow cytometry widely distributed but showed overall significantly higher expression in CML patients when compared with normal controls. In 15 fresh patients who subsequently received IFNα therapy; IFNAR2 expression at diagnosis was significantly higher in cytogenetic good responders than in poor responders. Down-regulation of IFNAR2 expression during IFNα therapy was observed only in good responders but not in poor responders. The encoded protein also functions as an antiviral factor. IFNAR2 may associate with IFNAR1 to form the type I interferon receptor. This protein serves as a receptor for interferons alpha and beta. IFNAR2 is also involved in IFN-mediated STAT1; STAT2 and STAT3 activation. Isoform 1 and isoform 2 are directly involved in signal transduction due to their association with the TYR kinase; JAK1. Isoform 3 is a potent inhibitor of type I IFN receptor activity. Following binding of IFNα2; IFNAR2 is internalized; but; instead of being routed towards degradation as it is when complexed to IFNB; it recycles back to the cell surface.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

Web: www.elabscience.com