

# Recombinant Human IFN-alpha/beta R2/IFNAR2 protein

Catalog Number: ATGP3952

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

27-243aa

### UniProt No.

P48551

### NCBI Accession No.

NP\_997468

### Alternative Names

Interferon alpha/beta receptor 2, IFNAR2, IFN-alpha binding protein, Interferon alpha binding protein, Type I interferon receptor 2, interferon alpha/beta receptor 2 isoform a, IFN-R-2, IFNABR, IFNARB, IFN-alpha-REC, IFN-R, IMD45

## PRODUCT SPECIFICATION

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### Molecular Weight

51.7kDa (456aa)

### Concentration

0.25mg/ml (determined by Absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its binding ability in a functional ELISA with Human IFN-alpha 2 (CAT# IFN0502) in the presence of Human IFN-alpha/beta R1 (CAT# ATGP3894). The ED50 range  $\leq$  500 ng/ml.

### Tag

hIgG-His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# Recombinant Human IFN-alpha/beta R2/IFNAR2 protein

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## BACKGROUND

### Description

IFN-alpha/beta R2, also known as IFNAR2, is a member of the class II cytokine receptor family. This protein is the principal ligand binding subunit of the receptor. Ligand binding is stabilized by the subsequent association with IFNAR1 and forms the signaling complex receptor. It also plays the role in STAT1, STAT2, and STAT3 activation. Recombinant human IFN-alpha/beta R2, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

ISYDSPDYTD ESCTFKISLR NFRSILSWEL KNHSIVPTHY TLLYTIMSKP EDLKVVKNCA NTTRSFCDLT DEWRSTHEAY VTVLEGFSGN TTLFSCSHNF WLAIMSFEP PEFEIVGFTN HINVMVKFPS IVEEELQFDL SLVIEEQSEG IVKHKHPEIK GNMSGNFTYI IDKLIPNTNY CVSYLEHSD EQAVIKSPLK CTLLPPGQES ESAESAK<LEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTTPV LKSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH>

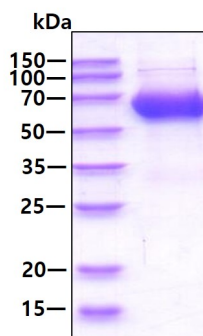
### General References

Grazziola C, et al, (2005) *Int J Oncol* 26:129-140.

Ortiz A, et al, (2019) *Cancer Cell* 35:33-45.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

### Biological Activity

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Human IFN-alpha 2 (CAT# IFN0502) is coated at 10 ug/ml (100 ul/well) can bind Human IFN-alpha/beta R2 in the presence of Human IFN-alpha/beta R1 (CAT# ATGP3894). The ED50 range  $\leq$  500 ng/ml.

