Recombinant Protein Technical Manual

Recombinant Human IFNAR1/IFNAR Protein (His Tag)

RPES0673

Product Data:

Product SKU: RPES0673

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: P17181

Protein Information:

Molecular Mass: 48.6 kDa

AP Molecular Mass:

Tag: C-His

Bio-activity:

Purity: > 97 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Interferon Alpha/Beta Receptor 1; IFN-R; IFN-Alpha/Beta Receptor 1; Cytokine Receptor Class-II Member 1; Cytokine Receptor Family 2 Member 1; CRF2; Type I Interferon Receptor 1;IFNAR1;IFNAR;AVP;IFN-alpha-REC

Immunogen Information:

Sequence: Met 1-Lys 436

Background:

Interferon-alpha/beta receptor alpha chain (IFNAR1) 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. The encoded protein also functions as an antiviral factor. Tyk2 slows down IFNAR1 degradation and that this is due, at least in part, to inhibition of IFNAR1 endocytosis. Mutant versions of IFNAR1, in which Tyr466 is changed to phenylalanine, can act in a dominant negative manner to inhibit phosphorylation of STAT2. These observations are consistent with a model in which IFNAR1 mediates the interaction between JAK kinases and the STAT transcription factors.