



Recombinant Protein Technical Manual

Recombinant Mouse IFNGR1 Protein (Fc Tag)

RPES1411

Product Data:

Product SKU: RPES1411

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P15261

Protein Information:

Molecular Mass: 53.0 kDa

AP Molecular Mass: 72-94 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95 % as determined by 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°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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

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

Application:

Synonyms: CD119; Interferon gamma receptor 1; IFNGR1; IFN-gamma receptor 1; IFN-gamma-R1; CD119 antigen; IFN gamma receptor 1; IFNGR; immune interferon receptor 1; interferon gamma receptor 1; interferon-gamma receptor alpha chain

Immunogen Information:

Sequence: Ala26-Asp253

Background:

The tetrameric receptor complex for IFN γ consists of two subunits, IFNGR1 (IFN γ R α) and IFNGR2 (IFN γ R β), through which the dimeric IFN- γ exerts its biological functions, including antiviral, antiproliferation and immune-modulatory activity in mammals. Both IFNGR1 and IFNGR2 are single transmembrane proteins belonging to the class II cytokine family. IFNGR1, widely expressed in most host cells, is essential for IFN γ binding, receptor trafficking, and signal transduction. IFNGR1 possesses an intracellular Janus tyrosine kinase (JAK) 1 binding site, a signal transducer and activator of transcription 1 (STAT1) binding site. The resulting STAT1 homodimers translocate from the cytoplasm to the nucleus and bind to the interferon-gamma activated sequence (GAS) promoter to induce expression of downstream interferon stimulated genes (ISGs).