Recombinant Mouse IFNGR1 Protein (His Tag)

Catalog No. PKSM041060

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

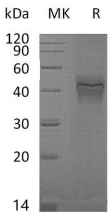
Description

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
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Ala26-Asp253
Accession	P15261
Calculated Molecular Weight	26.9 kDa
Observed molecular weight	38-55 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg 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℃. 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 a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 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

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The tetrameric receptor complex for IFNγ consists of two subunits, IFNGR1 (IFNγ Rα) and IFNGR2 (IFNγ Rβ), 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. FNGR1, widely expressed in most host cells, is essential for IFNγ 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).

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