

Mouse IL-21, Tag Free Protein

HA210801



Product name:	Mouse IL-21, Tag Free
Species reactivity:	Mouse
Bio-Activity:	Measured by its ability to enhance IFN-gamma secretion in NK-92 human natural killer lymphoma cells. The ED50 for this effect is 0.7-3 ng/mL.
Protein construction description:	A DNA sequence encoding the mouse IL-21 protein (Q9ES17) (Pro 25-Ser 146) was expressed with tag free.

Background: Cytokine with immunoregulatory activity. May promote the transition between innate and adaptive immunity. Induces the production of IgG1 and IgG3 in B-cells. Implicated in the generation and maintenance of T follicular helper (T_{fh}) cells and the formation of germinal-centers. Together with IL6, control the early generation of T_{fh} cells and are critical for an effective antibody response to acute viral infection. May play a role in proliferation and maturation of natural killer (NK) cells in synergy with IL15. May regulate proliferation of mature B- and T-cells in response to activating stimuli. In synergy with IL15 and IL18 stimulates interferon gamma production in T-cells and NK cells. During T-cell mediated immune response may inhibit dendritic cells (DC) activation and maturation.

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

Endotoxin: Less than 1.0 EU per µg by the LAL method.

Fragment region: IL-21 (25-146)

Source: HEK293

Accession: Q9ES17

Predicted molecular mass: 14.6 kD

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

Reconstitution: Reconstitute at 250 µg/ml in sterile water.

Storage: Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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HUABIO
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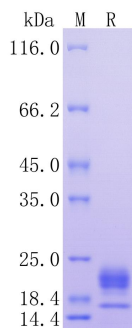


Fig1: Protein on SDS-PAGE under reducing (R) condition.

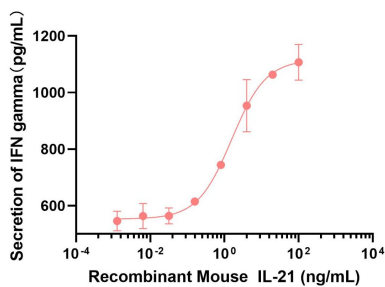


Fig2: Measured by its ability to enhance IFN-gamma secretion in NK-92 human natural killer lymphoma cells. The ED₅₀ for this effect is 0.7-3 ng/mL.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".