

IL-18 Protein, Canine, Recombinant (His)

General Information

Synonyms:	Interleukin-1 gamma (IL-1 gamma);IGIF;Interferon gamma-inducing factor (IFN-gamma-inducing factor);IL-18;IL18;Interleukin-18
Protein Construction:	37-193 aa
Species:	Canine
Expression Host:	E. coli
Accession:	Q9XSR0
Molecular Weight:	22.0 kDa (predicted)
AA Sequence:	YFGKLEPKLSIIRNLNDQVLVNEGNQPVFEDMPDSDCTDNAPHTIFIYMYKDSLTRGLAVTISVKYKTMSTLS CKNKTISFQKMSPPDSINDEGNDIIFQRSVPGHDDKIQFESSLYKGHFLACKKENDLFLKILKDKDENGDKSI MFTVQNKS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A proinflammatory cytokine primarily involved in polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses. Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells and natural killer (NK) cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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