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Products	Mouse IL-15, research grade. Recombinant mouse interleukin 15.								
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Content in µg	Order no.								
2	130-094-071								
10	130-094-072								
100	130-094-640								
Biological activity	The ED ₅₀ is ≤20 ng/mL corresponding to an activity of ≥5×10 ⁴ U/mg. Note: The ED ₅₀ was determined by stimulation of the proliferation of mouse CTLL-2 cell.								
Primary structure	Single, non-glycosylated polypeptide chain (115 amino acid residues).								
Molecular mass	13.3 kDa.								
Source	Produced in <i>E. coli</i> .								
Product format	Lyophilized from a filtered (0.2 µm) buffer solution.								
Stabilizer	None.								
Purity	>95% as determined by SDS-PAGE analysis.								
Endotoxin level	Low endotoxin (<1.0 EU/µg cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.								
Storage	Lyophilized Mouse IL-15, research grade should be stored at -20 °C. The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at -20 °C or below. Avoid repeated freeze-thaw cycles.								
Reconstitution	It is recommended to reconstitute lyophilized Mouse IL-15, research grade with deionized sterile-filtered water to a final concentration of 0.04–1.0 mg/mL in a minimal volume of 50 µL. Further dilutions should be prepared with 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) in phosphate-buffered saline.								

1.1 Background information

IL-15 is a member of the four α-helix bundle cytokine family. It is produced by different cell types, including epithelial cells, monocytes, muscle, and placenta cells. IL-15 is a potent lymphoid cell growth factor and shares many biological properties with IL-2. Like IL-2, IL-15 stimulates the proliferation of activated T cells

and promotes the generation of cytotoxic T lymphocytes (CTLs). IL-2 and IL-15 also induce the generation, proliferation, and activation of NK cells as well as B cell growth and immunoglobulin production. In addition, IL-15 is important for the maintenance of CD8⁺ memory T cells. For binding and signaling IL-15 uses the unique IL-15 receptor α-chain, but shares the β- and γ-chain of the IL-2 receptor.

1.2 Applications

Mouse IL-15 can be used for a variety of applications, including:

- Activation and expansion of NK and NKT cells.
- *In vitro* differentiation of NK cells, e.g., from purified CD34⁺ cells.
- *In vitro* T cell expansion, e.g., of naive CD8⁺ T cells, and T cell activation, e.g., of CTLs.

Optimal concentration for a specific application should be determined by a dose-response experiment.

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