

Product Information

INTERLEUKIN-12 (IL-12) MOUSE, RECOMBINANT Expressed in Sf21 insect cells

Product Number **I 8523**

Product Description

Interleukin-12 is a heterodimeric cytokine made up of two chains (p35 and p40). Interleukin-12 is important in host defense against intracellular pathogens.¹ IL-12 stimulates proliferation and induces the differentiation of the TH1 subset of T lymphocytes.² There is 70% homology between human and mouse p40, and 60% homology between the p35 chains of IL-12.³ Mouse IL-12 is active on human cells.³

Reagents

Lyophilized from a 0.2 µm-filtered solution of PBS, pH 7.4 containing 500 µg of bovine serum albumin as a carrier protein.

Storage/Stability

Store at -20 °C for a maximum of 6 months.

Reconstituted product may be stored at 2-8 °C for no more than one month. For prolonged storage, freeze in working aliquots at -20 °C. Avoid repeated freezing and thawing.

Product Profile

The biological activity of mouse recombinant IL-12 is measured by its ability to stimulate the proliferation of PHA-activated human lymphoblasts.⁴ The EC₅₀ is defined as the effective concentration of growth factor that elicits a 50% increase in cell growth in a cell-based bioassay.

Reconstitution

Reconstitute the contents of the vial using 0.2 µm-filtered PBS containing 0.1% bovine serum albumin to a concentration of not less than 1 µg/ml.

References

1. Locksley, R., Proc. Natl. Acad. Sci. USA **90**, 6115 (1998).
2. Hsieh, C. S., et al., Science, **260**, 547 (1993).
3. Schoenhaut, D. S., et al., J. Immunology, **148**, 3433 (1992).
4. Stern, A. S., et al., Proc. Natl. Acad. Sci. USA, **87**, 6808 (1990).

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