

Recombinant Mouse IL12, Fc-tagged

Cat. No. II12-329M Lot. No. (See product label)

SPECIFICATION

Product Overview The mouse IL-12 complex composed of the p40 subunit (aa 1-335) and the p35 subunit (aa 23-215) is fused through a polypeptide linker to the Fc region of human IgG1.

Species Mouse

Source CHO

ProteinLength 1-335;23-215 a.a.

Description Interleukin-12 (IL-12), also known as Natural Killer Cell Stimulatory Factor (NKSF) or Cytotoxic Lymphocyte Maturation Factor (CLMF), is a heterodimeric pleiotropic cytokine made up of a 40 kDa (p40) subunit and a 35 kDa (p35) subunit. IL-12 is produced by macrophages and B lymphocytes and has been shown to have multiple effects on T cells and Natural Killer (NK) cells. Some of these IL-12 activities include the induction of IFN-gamma; and TNF in resting and activated T and NK cells; the enhancement of cytotoxic activity of resting NK and T cells, the stimulation of resting T cell proliferation in the presence of a comitogen; and the enhancement of NK cell proliferation. Current evidence indicates that IL-12 is a key mediator of cellular immunity and induces the differentiation of Th1 cells from precursor T helper cells. Based on its activities, it has been suggested that IL-12 may have therapeutic potential as a vaccine adjuvant that promotes cellular immunity and as an antitumor and anti viral agent.

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Form	Lyophilized from 0.2µm-filtered solution in PBS.
Purity	≥98% (SDS-PAGE)
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.

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