

Recombinant Mouse Il12b, Fc-tagged

Cat. No. Il12b-348M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mouse IL-23 complex composed of the p40 subunit (aa 23-335) and the p19 subunit (aa 20-196) is fused through a polypeptide linker to the Fc region of human IgG1.
Species	Mouse
Source	CHO
ProteinLength	23-335;20-196 a.a.
Description	Interleukin-23 (IL-23) is a heterodimeric cytokine composed of two disulfide-linked subunits, a p19 subunit that is unique to IL-23, and a p40 subunit that is shared with IL-12 (1-5). Although p19 is expressed by activated macrophages, dendritic cells, T cells, and endothelial cells, only activated macrophages and dendritic cells express p40 concurrently to produce IL-23. The functional IL-23 receptor complex consists of two receptor subunits, the IL-12 receptor beta 1 subunit (IL-12 Rbeta1) and the IL-23-specific receptor subunit (IL-23 R). IL-23 has biological activities that are similar to, but distinct from IL-12. Both IL-12 and IL-23 induce proliferation and IFN-gamma; production by human T cells. While IL-12 acts on both naive and memory human T cells, the effects of IL-23 is restricted to memory T cells. In mouse, IL-23 but not IL-12, has also been shown to induce memory T cells to secrete IL-17, a potent proinflammatory cytokine. IL-12 and IL-23 can induce IL-12 production from mouse splenic DC of both the CD8 ⁻ and CD8 ⁺ subtypes, however only IL-23 can act directly on CD8 ⁺ DC to mediate immunogenic presentation of poorly immunogenic tumor/self

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	peptide.
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.

GENE INFORMATION

Gene Name	IL12b interleukin 12b [<i>Mus musculus</i>]
Official Symbol	IL12b
Synonyms	IL12B; interleukin 12b; interleukin-12 subunit beta; CLMF p40; IL-12 p40; IL-12 subunit p40; IL-23 subunit p40; cytotoxic lymphocyte maturation factor 40 kDa subunit; p40; IL-12b; IL12p40; IL-12p40;
Gene ID	16160
mRNA Refseq	NM_008352
Protein Refseq	NP_032378
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Chagas disease (American trypanosomiasis),

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organism-specific biosystem;

Function

contributes_to cytokine activity; cytokine receptor activity; contributes_to cytokine receptor binding; identical protein binding; interleukin-12 alpha subunit binding; interleukin-12 alpha subunit binding; protein binding; protein heterodimerization activity; protein homodimerization activity;

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