

Active Recombinant Mouse Interleukin 12b

Cat. No. II12b-644M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL12b protein was expressed in Spodoptera frugiperda. Met23-Ser335(p40) & Arg23-Ala215 (p35).
Species	Mouse
Source	S. frugiperda
Protein Length	23-335; 23-215 a.a.
Description	IL12b is a heterodimeric pleiotropic cytokine made up of a 40 kDa (p40) subunit and a 35 kDa (p35) subunit. IL12b 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 IL12b activities include the induction of IFN γ 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.
Form	Lyophilized from a 0.2 μ m filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Met23 (p40) & Arg23 (p35)
Activity	Measured in a cell proliferation assay using PHA-activated mouse splenocytes. The ED ₅₀ for this effect is typically 0.01-0.1 ng/mL.
Endotoxin Level	<1.0 EU per 1 μ g of the protein by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SDS-PAGE	70 kDa,non-reducing conditions.
Purity	>97%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	IL12b interleukin 12b [Mus musculus]
Official Symbol	IL12b
Synonyms	IL12b; interleukin12b; p40; IL-12b; IL12p40; IL-12p40; interleukin-12 subunit beta; CLMF p40; IL-12 subunit p40; IL-23 subunit p40; cytotoxic lymphocyte maturation factor 40 kDa subunit
Gene ID	16160
mRNA Refseq	NM_008352
Protein Refseq	NP_032378
UniProt ID	P43432
Chromosome Location	11

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Pathway

African trypanosomiasis; Allograft rejection; Amoebiasis; Cytokine-cytokine receptor interaction; Herpes simplex infection; Influenza A; Jak-STAT signaling pathway; Legionellosis; Leishmaniasis; Measles; Pertussis; RIG-I-like receptor signaling pathway; Toll-like receptor signaling pathway; Toxoplasmosis; Type I diabetes mellitus

Function

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

PDB rendering based on 1f42.

