Active Recombinant Mouse Interleukin 12b

Cat. No. Il12b-643M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RecombinantMouse Il12b protein was expressed in Spodopterafrugiperda. Met23-Ser335.
Species	Mouse
Source	S.frugiperda
ProteinLength	23-335 a.a.
Description	Il12b is apleiotropic cytokine originally identified in the medium of activated human Blymphoblastoid cell lines. Il12b has multiple effectson T cells and NK cells and is a key mediator in the development of Th1cells. Il12b is aheterodimeric cytokine containing two disulfidelinked subunits, p35 and p40.
Form	Lyophilizedfrom a 0.2 um filtered solution in PBS with BSA as a carrier protein.
N-terminalSequence	Met23
MolecularWeight	35.8 kDa (monomer)
Activity	Measuredby its ability to inhibit the Il12b dependentproliferation of mouse splenocytes activated with PHA and IL-2. The ED50 forthis effect is typically 1-3 ng/mL in the presence of 0.3 ng/mL of mouse Il12b.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.

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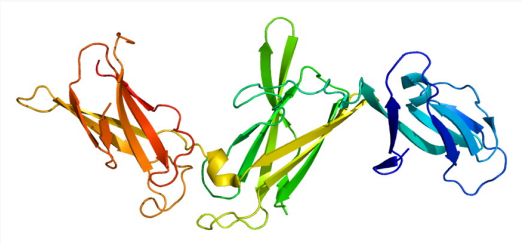
Purity	>97%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstituteat 10μg/mL in sterile PBS containing at least 0.1% human or bovine serumalbumin.
Storage	Use amanual defrost freezer and avoid repeated freezethaw cycles. 12 months from date of receipt, -20 to -70°C as supplied.1 month, 2 to 8°C under sterile conditions after reconstitution. 3months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Il12b interleukin 12b [Musmusculus]
Official Symbol	Il12b
Synonyms	Il12b; interleukin12b; p40;Il-12b; Il12p40; Il-12p40; interleukin-12 subunit beta; CLMF p40; IL-12subunit p40; IL-23 subunit p40; cytotoxic lymphocyte maturation factor 40 kDasubunit
Gene ID	16160
mRNA Refseq	NM_008352
Protein Refseq	NP_032378
UniProt ID	P43432
Chromosome Location	11
Pathway	Africantrypanosomiasis; Allograft rejection; Amoebiasis; Cytokine-cytokine

	receptorinteraction; Herpes simplex infection; Influenza A; Jak-STAT signalingpathway; Legionellosis; Leishmaniasis; Measles; Pertussis; RIG-I-likereceptor signaling pathway; Toll-like receptor signaling pathway; Toxoplasmosis;Type I diabetes mellitus
Function	contributes_tocytokine activity; cytokine receptor activity; contributes_to cytokinereceptor binding; identical protein binding; interleukin-12 alpha subunitbinding; protein binding; protein heterodimerization activity
PDBrendering based on 1f42.	

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