

Recombinant Murine Interleukin 12a

Cat. No. IL12a-209M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant murine IL-12-p40 is a 40.0 kDa protein containing 313 amino acid residues. It is expressed in <i>CHO cells</i> . MW=40kDa.
Species	Mouse
Source	CHO
Description	Interleukin-12 is a disulfide-linked heterodimeric protein (p70), composed of two subunits, p35 and p40, which are encoded by two different genes. Accumulating data indicate that p40 secretion precedes that of IL-12 expression. In addition, to its ability to covalently bind to p35 to form IL-12, p40 can bind to p19 to form IL-23.
Purity	Greater than 95% (determined by SDS-PAGE and HPLC analysis).
Specific Activity	NA.
Endotoxin Level	< 0.1 ng per g of rMu IL-12-p40 (1EU/g).
Biological Activity	NA.
Formulation	Lyophilized from a sterile-filtered solution with no additives.
Reconstitution	Please Note: Always centrifuge product before opening vial. The lyophilized protein should be reconstituted with distilled, sterile water to a concentration of 0.1-1.0 mg/ml. For further dilution, carrier protein (0.1% BSA or HSA) should be added to avoid loss

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of bioactivity.

Storage

The lyophilized protein, though stable at room temperature for up to 3 weeks, is best stored desiccated at -20°C. Reconstituted protein should be used immediately or stored long-term in undiluted working aliquots at -20°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name [IL12a interleukin 12a \[Mus musculus \]](#)

Synonyms

IL12a; interleukin 12a; p35; LI12a; IL-12a; IL-12p35; MGC151228; MGC151232; interleukin 12a p35 subunit; interleukin 12a

Gene ID [16159](#)

mRNA Refseq [NM_001159424](#)

Protein Refseq [NP_001152896](#)

UniProt ID [P43431](#)

Chromosome Location

3 E1; 3 37.0 cM

Pathway

Allograft rejection; Cytokine-cytokine receptor interaction; RIG-I-like receptor signaling pathway; Jak-STAT signaling pathway; Toll-like receptor signaling pathway; Type I diabetes mellitus

Function

cytokine activity; growth factor activity; interleukin-12 beta subunit binding; interleukin-

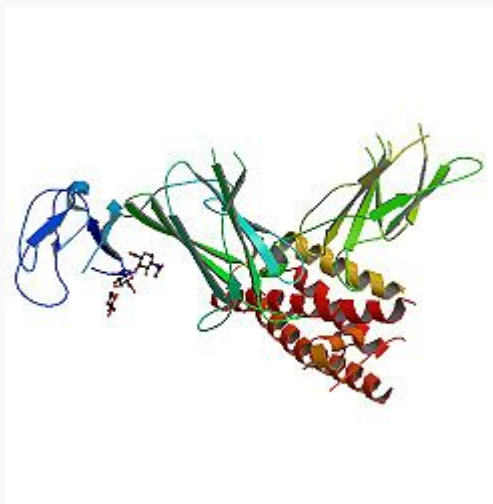
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12 receptor binding

PDB rendering based
on 1f45.



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