

Active Recombinant Mouse Il12a Protein (Arg23-Ala215), C-His tagged, Animal-free, Carrier-free

Cat. No. Il12a-47M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il12a Protein (Arg23-Ala215) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Arg23-Ala215
Description	Interleukin 12 (IL-12) is a pro-inflammatory cytokine with a molecular weight of 70 kDa composed of two subunits, IL-12 p35 (35 kDa) and IL-12 p40 (40 kDa), and IL-12 p35 as a p35-p35 homo-dimer with 57kDa molecular weight and a p35 monomer of 27kDa molecular weight. The p35 molecule is unique to IL-12, while p40 is shared by both IL-12 and IL-23. IL-12 promotes Th1 T cell responses, while IL-23 promotes Th17 T cell responses.
Form	Lyophilized
Bio-activity	Measure by its ability to induce proliferation in T-cell enriched PBMC. The ED50 for this effect is < 0.2 ng/mL.
Molecular Mass	The protein has a calculated MW of 22.65 kDa. The protein migrates about 25 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	IL12a interleukin 12a [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL12a
Synonyms	IL12A; interleukin 12a; interleukin-12 subunit alpha; CLMF p35; IL-12 subunit p35; interleukin 12a p35 subunit; cytotoxic lymphocyte maturation factor 35 kDa subunit; p35; LI12a; IL-12a; IL-12p35; MGC151228; MGC151232;
Gene ID	16159
mRNA Refseq	NM_001159424

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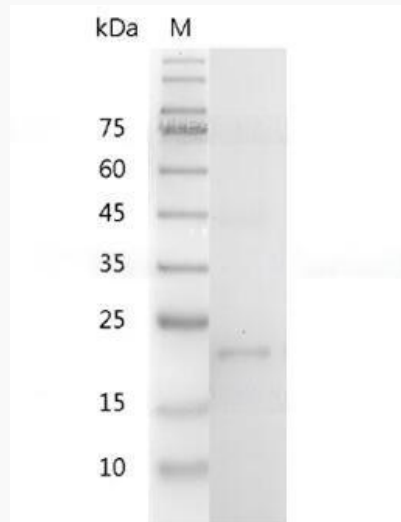
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Protein Refseq NP_001152896

UniProt ID P43431

**SDS-PAGE analysis
of recombinant
mouse IL-12 (p35).**



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