

Active Recombinant Rat IL12A & IL12B Protein, His-tagged

Cat. No. IL12A & IL12B-1257R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat IL23A (NP_569094.1) (Met1-Ala196) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; Recombinant rat IL12B (EDM04146.1) (Met1-Ser335) was expressed with a polyhistidine tag at the C-terminus, constructed the p
Species	Rat
Source	HEK293
ProteinLength	1-196;1-335 a.a.
Predicted N Terminal	Val 22 & Met 23
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its ability to induce IL17 secretion by mouse splenocytes. The ED50 for this effect is 2-15 ng/mL.
Molecular Mass	The recombinant rat IL23A & the rat IL12B comprises 510 (186+324) amino acids and has a calculated molecular mass of 58.2 (21+37.2) KDa. The apparent molecular mass of the rat IL23A & the rat IL12B heterodimer is approximately 47.08, 43.29, 27.67 and 24.75 KDa respectively in SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.

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Purity	(17.9+53.5+2.9+23.8) % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL12a interleukin 12A [<i>Rattus norvegicus</i>]
Official Symbol	IL12A
Synonyms	IL12A; interleukin 12A; interleukin-12 subunit alpha; IL-12A; CLMF p35; IL-12 subunit p35; interleukin 12 p35 subunit; cytotoxic lymphocyte maturation factor 35 kDa subunit;
Gene ID	84405
mRNA Refseq	NM_053390
Protein Refseq	NP_445842
MIM	
UniProt ID	
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft

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rejection, conserved biosystem; Amoebiasis, organism-specific biosystem;
Amoebiasis, conserved

Function

cytokine activity; contributes_to cytokine activity; growth factor activity; contributes_to
growth factor activity; interleukin-12 beta subunit binding; interleukin-12 beta subunit
binding; interleukin-12 receptor binding; interleukin-27 binding; interleu

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