

Active Recombinant Rat IL23A & IL12B protein(Met1-Ala196 & Met1-Ser335), His-tagged

Cat. No. IL23A & IL12B-1231R **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 plasmid 2. The two plasmids were co-expressed and the Rat IL23A & the Rat IL12B heterodimer was purified and expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	Met1-Ala196 & Met1-Ser335
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its ability to induce IL17 secretion by Mouse splenocytes. The ED50 for this effect is 0.5-3ng/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	> 90 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°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 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL23a Interleukin 23, alpha subunit p19 [<i>Rattus norvegicus</i>]
Official Symbol	IL23A; IL12B
Synonyms	IL23A; Interleukin 23, alpha subunit p19; interleukin-23 subunit alpha; IL-23-A; IL-23p19; IL-23 subunit alpha; interleukin-23 subunit p19; MGC114275;
Gene ID	155140
mRNA Refseq	NM_130410
Protein Refseq	NP_569094

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