

Recombinant Mouse IL23A protein, His-tagged

Cat. No. IL23A-159M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL23A (Q9EQ14) (Met1-Ala196) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; Recombinant Mouse IL12B (P43432) (Met1-Ser335) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the mouse IL23 heterodimer was purified in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	1-196;1-335 a.a.
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	1. Immobilized Human IL23 Receptor hFc at 2 µg/ml (100 µl/well) can bind Mouse IL-23 His, the EC50 of Mouse IL-23 His is 50-250 ng/mL. 2. Measured by its ability to induce IL17 secretion by mouse splenocytes. The ED50 for this effect is 0.05-1 ng/mL.
Molecular Mass	The recombinant mouse IL23 (mouse IL23A&IL12B Heterodimer) comprises 510 (186+324) amino acids and has a calculated molecular mass of 58.3 (21.1+ 37.2) KDa. The apparent molecular mass of the recombinant protein is approximately 47,45 and 26 KDa respectively in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % 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>Mus musculus</i>]
Official Symbol	IL23A
Synonyms	IL23A; interleukin 23, alpha subunit p19; interleukin-23 subunit alpha; IL-23-A; IL-23p19; IL-23 subunit alpha; interleukin-23 subunit p19; p19; IL-23;
Gene ID	83430
mRNA Refseq	NM_031252
Protein Refseq	NP_112542

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