

IL-23 Protein, Rat, Recombinant (His)

General Information

Protein Construction:	A DNA sequence encoding the rat IL23A (NP_569094.1) (Met1-Ala196) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the 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. Predicted N terminal: Val 22 & Met 23
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	NP_569094.1&EDM04146.1
Molecular Weight:	58.2 kDa (predicted); 47.08, 43.29, 27.67 and 24.75 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured by its ability to induce IL17 secretion by mouse splenocytes. The ED50 for this effect is 0.5-3ng/mL.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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