

Rat IL23 (IL23A & IL12B Heterodimer) recombinant protein



Catalog Number: 504645

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.

Organism

Rat

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to induce IL17 secretion by mouse splenocytes. The ED₅₀ for this effect is 2-15 ng/mL.

Purity

(17.9+53.5+2.9+23.8) % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Val 22 & Met 23

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.

Formulation

Lyophilized from sterile PBS, pH 7.4.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

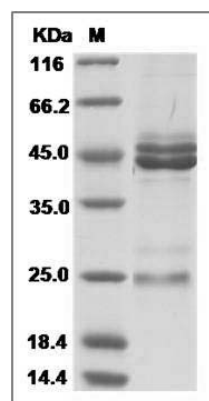
Storage

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

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Rat IL-23 (IL23A & IL12B Heterodimer) Protein
SDS-PAGE