

Mouse IL-23 (IL23A & IL12B Heterodimer) Protein

Catalog Number: CT028-M08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

IL-23; p19

Protein Construction:

A DNA sequence encoding the mouse IL23A (Q9EQ14) (Met1-Ala196) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding 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.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: (33.1+31.5+32.9) % as determined by SDS-PAGE

Bio Activity:

Measured by its binding ability in a functional ELISA. 1. Measured by its ability to bind recombinant rat IL23R-Fc (Cat:80395-R02H) in a functional ELISA. 2. Immobilized mouse IL12Bh (m)+mIL23Ah at 10 µg/ml (100 µl/well) can bind human IL23R-Fc (Cat:13840-H02H). The EC₅₀ of human IL23R-Fc (Cat:13840-H02H) is 0.14-0.35 µg/ml. 3. Immobilized mouse IL12Bh (m)+mIL23Ah at 10 µg/ml (100 µl/well) can bind Cynomolgus IL23R-Fc (Cat:90123-C02H). The EC₅₀ of Cynomolgus IL23R-Fc (Cat:90123-C02H) is 0.05-0.11 µg/ml. 4. Immobilized mouse IL12Bh (m)+mIL23Ah at 10 µg/ml (100 µl/well) can bind biotinylated human IL12RB1-His (Cat:11674-H08H). The EC₅₀ of biotinylated human IL12RB1-His (Cat:11674-H08H) is 21.3-49.8 ng/mL. 5. Measured by its ability to induce IL17 secretion by mouse splenocytes. The ED₅₀ for this effect is 0.5-4ng/mL.

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 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.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

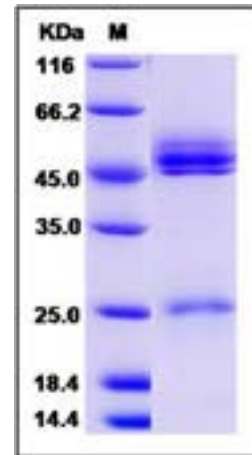
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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