

Marmoset IL23 (IL23A & IL12B Heterodimer) recombinant protein



Catalog Number: 504811

General Information

Protein Construction

A DNA sequence encoding the marmoset IL23A (Met 1-Pro 189) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the marmoset IL12B (Met 1-Asn328) was expressed with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the marmoset IL23A & the marmoset IL12B heterodimer was purified.

Organism

Marmoset

Expression Host

Human Cells

QC Testing

Activity

Measured by its binding ability in a functional ELISA.

Immobilized marmoset IL23A-His+marmoset IL12B-His (Cat:CT037-C08H) at 10 µg/ml (100 µl/well) can bind biotinylated human IL12RB1-His (Cat:501974). The EC₅₀ of biotinylated human IL12RB1-His (Cat:501974) is 55-129 µg/ml.

Purity

> 85 % 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

Arg 20 & Ile 23

Molecular Mass

The recombinant marmoset IL23A & the marmoset IL12B comprises 498(181+317) amino acids and has a calculated molecular mass of 56.4 (20.1+36.3) KDa. The apparent molecular mass of the marmoset IL23A & the marmoset IL12B heterodimer is approximately 22 & 45 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

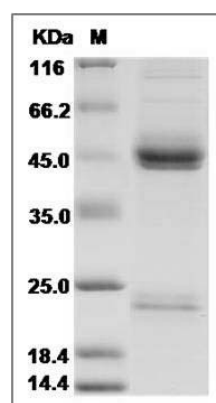
Storage

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



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Protein SDS-PAGE