

Human IL23A / IL-23A Protein (Fc Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 13062-H02H

General Information

Gene Name Synonym:

IL-23; IL-23A; IL23P19; P19; SGRF

Protein Construction:

A DNA sequence encoding the human IL23A (NP_057668.1) (Met1-Pro189) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE.

Endotoxin:

< 1.0 EU per µg 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

Molecular Mass:

The recombinant human IL23A consists of 408 amino acids and predicts a molecular mass of 45.4 kDa.

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:

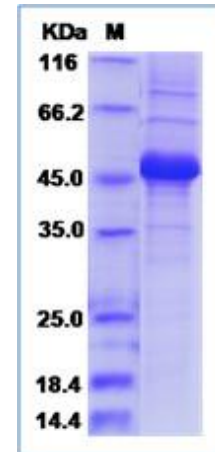
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

IL-23, which is mainly secreted by antigen-presenting cells, is a member of the IL-12 family, which includes IL-12, IL-27, and IL-35[10]. IL-23 is a heterodimeric cytokine, comprised a unique p19 subunit and p40 subunit, the latter of which is shared with IL-12. The receptor for IL-23 consists of IL-23R and IL-12Rβ1, the latter of which is also characteristic of IL-12. IL-23 is essential for Th17 differentiation, expansion, and survival by binding to its receptor, thereby activating the signaling pathway [11,12]. Many studies revealed that the IL-23/Th17 pathway is implicated in the pathophysiology of various autoimmune diseases, such as autoimmune arthritis[13], primary biliary cirrhosis[14], and inflammatory bowel disease[15].

References

3.Ye X, Zhang L, Wang H, *et al.* The Role of IL-23/Th17 Pathway in Patients with Primary Immune Thrombocytopenia. Kuwana M, ed. PLoS ONE. 2015;10(1):e0117704.

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For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>