

IL-23 Protein, Human, Recombinant (His & Avi), Biotinylated V2

General Information

Synonyms:	IL-23A;IL23P19;P19;IL-23;IL23;SGRF
Protein Construction:	Arg20-Pro189(IL-23 alpha) & Ile23-Ser328(IL-12 beta)
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NPF7(IL-23 alpha)&P29460(IL-12 beta)
Molecular Weight:	21.7 (IL-23 alpha) & 34.7 (IL-12 beta) kDa (Predicted); 24 kDa (IL-23 alpha) and 40-50 kDa (IL-12 beta) kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human IL-23R, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human IL-23 alpha&IL-12 beta, His Tag with the EC50 of 0.87 µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The interleukin (IL)-12 family of cytokines, including IL12 and IL 23, play an important role in driving aberrant Th1 and Th17 immune responses in patients with Crohn's disease (CD). Targeting this pathway has opened new avenues for therapeutic intervention. The balance of proinflammatory cytokines interleukin (IL)-12 and IL-23 plays a key role in shaping the development of antitumor or protumor immunity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481