Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825

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# Cynomolgus IL-23A & Human IL-12B Heterodimer Protein; His Tag

#### **Product Information**

Product Name Cynomolgus IL-23A & Human IL-12B Heterodimer Protein; His Tag

**Storage temp.** Store at  $\leq$  -70°C, stable for 6 months after receipt.

Recommend to aliquot the protein into smaller quantities for

optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size GM-88027RP-100 / 100 μg

GM-88027RP-1000 / 1 mg

#### **Protein Information**

Description

Alternative Names IL-23 alpha & IL-12 beta Heterodimer

Source Cynomolgus IL-23A & Human IL-12B Heterodimer Protein; His Tag (GM-

88027RP) is expressed from human 293 cells (HEK-293). It contains AA(Cynomolgus IL-23A) Val 22 - Pro 189 (Accession # G7PIH8) and

AA(Human IL-12B) Ile 23 - Ser 328 (Accession # P29460-1). This protein carries a His tag at the C-terminus of Human IL-12B.

Purity > 90% as determined by SDS-PAGE

Endotoxin < 1 EU/μg, determined by LAL gel clotting assay Predicted Mol Mass 18.5 KDa (IL-23A) and 34.4 KDa (IL-12B)

**Formulation** Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.

Supplied as a 0.2 pm intered solution of 1 B3, p117.2-7.4.

IL-23 is a heterodimeric cytokine made of IL-23 alpha (p19) and IL-12 beta (p40) subunits. While p40 is shared with IL-12, p19 is unique to IL-23. It binds to its receptor complex (IL-23R and IL-12R $\beta$ 1) to regulate Th17 cells, promoting the release of pro-inflammatory cytokines like IL-17 and IL-22, driving immune

inflammation.

IL-23 plays a significant role in many inflammatory and autoimmune diseases, such as psoriasis, Crohn's disease, ulcerative colitis, and rheumatoid arthritis. Due to its regulation of Th17 cells and inflammatory responses, IL-23 has become an important therapeutic target. Drugs that specifically block p19 (e.g., guselkumab) have been used to treat various inflammatory diseases. Additionally, p40-targeting drugs (e.g., ustekinumab) can inhibit the functions of both IL-12 and IL-

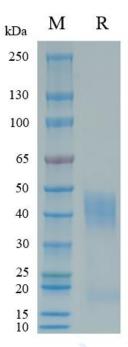
23, thereby alleviating disease progression.

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### **SDS-PAGE**

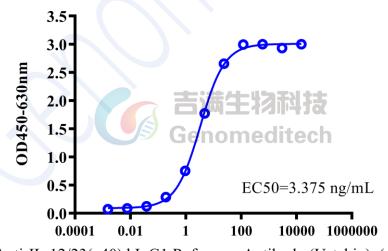


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

## **Bioactivity-ELISA**

# **Bioactivity-ELISA**

0.2 µg Cynomolgus IL-23A & human IL-12B Heterodimer Protein; His Tag of per well



Anti-IL-12/23(p40) hIgG1 Reference Antibody (Ustebio) .(ng/mL)

Cynomolgus IL-23A & Human IL-12B Heterodimer Protein; His Tag (Catalog # GM-88027RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-IL-12/23(p40) hIgG1 Reference Antibody (Ustebio) (Catalog # GM-87870MAB) were added.

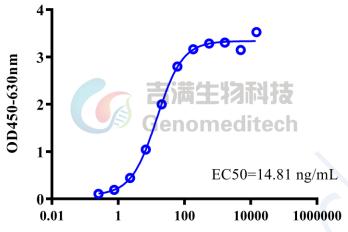
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## **Bioactivity-ELISA**

0.6 μg Anti-His mIgG2a Antibody+0.2 μg Cynomolgus IL-23A & human IL-12B Heterodimer Protein; His Tag of per well



Anti-IL23A hIgG4 Reference Antibody (Risbio).(ng/mL)

Cynomolgus IL-23A & Human IL-12B Heterodimer Protein; His Tag (Catalog # GM-88027RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6  $\mu$ g/well) precoated. Increasing concentrations of Anti-IL23A hIgG4 Reference Antibody (Risbio) (Catalog # GM-88013MAB) were added.