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

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human IL-23A & Mouse IL-12B Heterodimer

Protein; His Tag

Product Information

Product Name Human IL-23A & Mouse 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-88029RP-100 / 100 μg

GM-88029RP-1000 / 1 mg

Protein Information

Description

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

Source Human IL-23A & Mouse IL-12B Heterodimer Protein; His Tag (GM-88029RP)

is expressed from human 293 cells (HEK-293). It contains AA(Human IL-23A) Arg 20 - Pro 189 (Accession # Q9NPF7-1) and AA(Mouse IL-12B) Met 23 - Ser

335 (Accession # P43432-1).

This protein carries a His tag at the C-terminus of Mouse IL-12B.

Purity > 90% as determined by SDS-PAGE

Endotoxin < 1 EU/μg, determined by LAL gel clotting assay

Predicted Mol Mass 18.7 KDa (IL-23A) and 36.9 KDa (IL-12B)

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

Supplied as a 0.2 mil intered solution of 1 bb, 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 β 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-

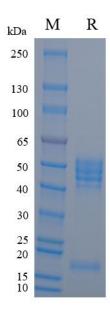
23, thereby alleviating disease progression.

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SDS-PAGE

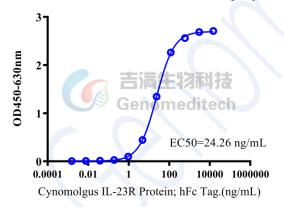


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

Bioactivity-ELISA

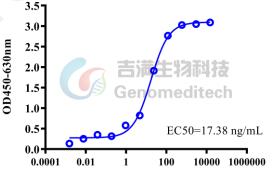
0.6 μg Anti-His mIgG2a Antibody+ 0.2 μg Human IL-23A & Mouse IL-12B Heterodimer Protein; His Tag of per well



Human IL-23A & Mouse IL-12B Heterodimer Protein; His Tag (Catalog # GM-88029RP) was immobilized at 2 μ g/ml (100 μ L/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 μ g/well) precoated. Increasing concentrations of Cynomolgus IL-23R Protein; hFc Tag (Catalog # GM-88022RP) were added.

Bioactivity-ELISA

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



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

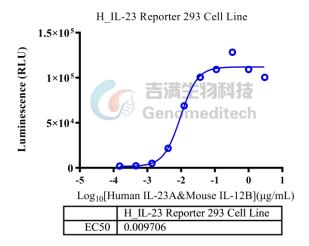
Human IL-23A & Mouse IL-12B Heterodimer Protein; His Tag (Catalog # GM-88029RP) was immobilized at 2 μ g/ml (100 μ L/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 μ g/well) precoated. Increasing concentrations of Anti-IL23A hIgG4 Reference Antibody (Risbio) (Catalog # GM-88013MAB) were added.

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Bioactivity CELL BASE



Human IL-23A & Mouse IL-12B Heterodimer Protein; His Tag (Catalog # GM-88029RP) was added into H_IL-23 Reporter 293 Cell Line (Catalog # GM-C06722), and then IL-23/IL-23R signals were stimulated.