

# Human IL-12B Protein; His Tag

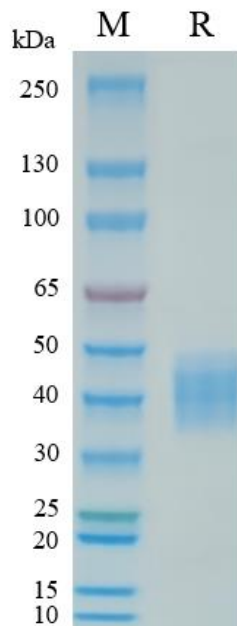
## Product Information

<b>Product Name</b>	Human IL-12B Protein; His Tag
<b>Storage temp.</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-88052RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-88052RP-1000 / 1 mg</b>

## Protein Information

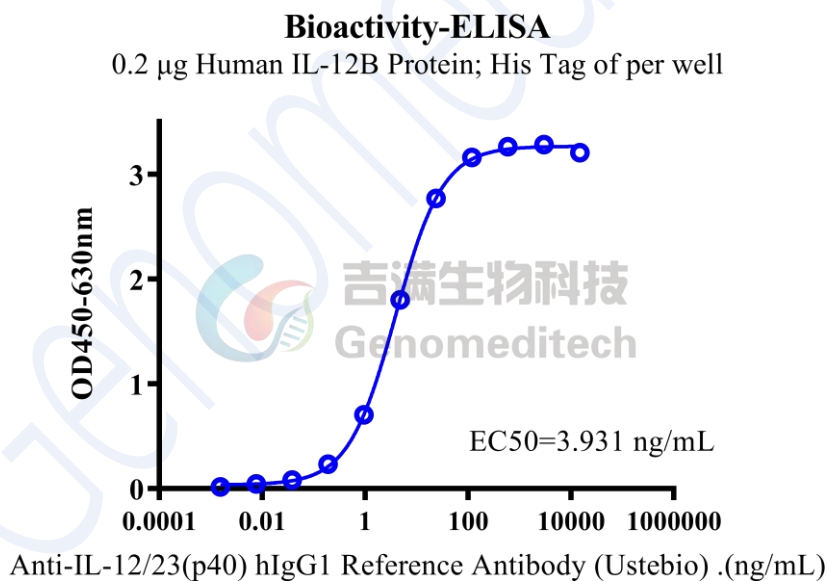
<b>Alternative Names</b>	IL12B,CLMF,CLMF2,NKSF,NKSF2,p40
<b>Source</b>	Human IL-12B Protein; His Tag (GM-88052RP) is expressed from human 293 cells (HEK-293). It contains AA Ile 23 - Ser 328 (Accession # P29460-1). This protein carries a His tag at the C-terminus.
<b>Purity</b>	> 90% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	34.4 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	<p>IL-12B (Interleukin-12B) is a crucial cytokine involved in the regulation of immune responses. It is primarily produced by immune cells such as macrophages and dendritic cells. IL-12B forms a part of the heterodimeric cytokine IL-12, which plays a key role in promoting the activation of T cells and natural killer (NK) cells, thereby enhancing the body's ability to fight infections and tumors.</p> <p>The IL-12B gene encodes the p40 subunit, which combines with the p35 subunit (encoded by IL-12A) to form active IL-12. Besides its immune-stimulating functions, IL-12B is also involved in inflammation regulation and immune-related diseases. Variations or dysregulation of IL-12B have been linked to various autoimmune and inflammatory conditions, making it an important target for immunotherapy research.</p>

## 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



Human IL-12B Protein; His Tag (Catalog # GM-88052RP) 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.