

# Human IL-25

## research grade

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#### 1. Description

<b>Products</b>	Human IL-25, research grade. Recombinant human interleukin 25.						
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Content in µg	Order no.						
5	130-115-646						
25	130-115-644						
<b>Biological activity</b>	The biological activity is determined by its ability to induce IL-8 in human PBMCs using a concentration range of 10–100 ng/mL.						
<b>Primary structure</b>	Homodimer, two disulfide-linked polypeptide chains (145 amino acid residues).						
<b>Molecular mass</b>	33.5 kDa.						
<b>Source</b>	Produced in <i>E. coli</i> .						
<b>Product format</b>	Lyophilized from a filtered (0.2 µm) buffer solution.						
<b>Stabilizer</b>	None.						
<b>Purity</b>	>95% as determined by SDS-PAGE analysis.						
<b>Endotoxin level</b>	Low endotoxin (<1.0 EU/µg cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.						
<b>Storage</b>	Lyophilized Human IL-25, research grade should be stored at –20 °C. The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at –20 °C or below. Avoid repeated freeze-thaw cycles.						
<b>Reconstitution</b>	It is recommended to reconstitute lyophilized Human IL-25, research grade with deionized sterile-filtered water to a final concentration of 0.1–1.0 mg/mL in a minimal volume of 100 µL. Further dilutions should be prepared with 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) in phosphate-buffered saline.						

##### 1.1 Background information

Interleukin 25 (IL-25) is also known as IL-17E and belongs to the IL-17 family and is secreted by Th2 cells and mast cells. It induces the production of other cytokines by Th2 cells and ILCs, including IL-4, IL-5, and IL-13 in multiple tissues. IL-25 is an important cytokine controlling the immunity of the gut and can be involved in chronic inflammation associated with the gastrointestinal tract. It is also involved in allergic airway inflammation and airway hyper

reactivity. In addition it shows anti-tumor activity *in vivo* in several human cancers including melanoma, breast, and lung.

##### 1.2 Applications

Human IL-25 can be used for a variety of applications including:

- Th2 differentiation.
- ILC stimulation.
- Eosinophil differentiation.

Optimal concentration for a specific application should be determined by a dose-response experiment.

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