

## 32-12162: Human Interleukin-9

**Gene :** IL9  
**Gene ID :** 3578  
**Uniprot ID :** P15248  
**Alternative Name :** Cytokine P40, T-cell growth factor P40

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 14.3 kDa (127 aa)

Interleukin 9 (IL-9) is a cytokine produced by type 2 T helper (Th2) cells and regulates hematopoietic cells. IL-9 signals through the interleukin 9 receptor (IL9R) to activate STAT signaling. IL-9 functions to induce cell proliferation, prevent cell apoptosis, and is associated with asthma and airway hyperresponsiveness.

### Product Info

**Amount :** 10 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** MQGCPTLAGI LDINFLINKM QEDPASKCHC SANVTSCCLCL GIPSDNCTRP CFSERLSQMT NTTMQTRYPL IFSRVKKSVE VLKNNKCPYF SCEQPCNQTT AGNALTFLKS LLEIFQKEKM RGMRGKI

### Application Note

**Endotoxin:** Less than  $0.1 \text{ ng}/\mu\text{g}$  ( $1 \text{ IEU}/\mu\text{g}$ ) as determined by LAL test.

Biological Activity was determined by MO7e cell proliferation at  $\leq 2 \text{ ng/mL}$ ;  $\geq 5.0 \times 10^5 \text{ units/mg}$  (typical ED50 is  $< 1 \text{ ng/mL}$ ). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



