

## 32-12158: Mouse Interleukin-7

**Gene :** Il7  
**Gene ID :** 16196  
**Uniprot ID :** P10168  
**Alternative Name :** Il-7, Lymphopoietin 1 (LP-1), pre-B cell Factor

### Description

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

**Predicted MW:** Monomer, 15 kDa (130 aa)

Interleukin 7 (IL-7) is a hematopoietic cytokine that is an important regulator of B and T cell development. IL-7 is secreted by bone marrow and thymic stromal cells, dendritic cells, intestinal epithelial cells, hepatocytes, and keratinocytes. IL-7 signals through the interleukin 7 receptor (IL-7R) to promote the differentiation of hematopoietic stem cells into T cells, B cells, and natural killer cells. IL-7 is also a regulator of intestinal mucosal lymphocyte proliferation. Human and mouse IL-7 show species cross-reactivity.

### 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 acetic acid  
Sterile 10 mM acetic acid at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** MECHIKDKEG KAYESVLMIS IDELDKMTGT DSNCPNNEPN FFRKHKVDDT KEAAFLNRAA RKLKQFLKMN  
ISEEFNVHLL TVSQGTQTLV NCTSKEEKNV KEQKKNDAFC LKRLLEIKT CWNKILKGS

### Application Note

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

Biological Activity was determined by 2E8 cell proliferation at  $\leq 1 \text{ ng/mL}$ ;  $\geq 1.0 \times 10^6 \text{ units/mg}$ . 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.

