

## IL-3beta Rat E. coli

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> E. coli	RBG30003B005	(5 µg)
<b>Species:</b> Rat	RBG30003B020	(20 µg)
<b>Other names:</b> MCGF (Mast cell growth factor), Multi-CSF, HCGF, P-cell stimulation factor	RBG30003B100	(100 µg)

### Description

IL-3 is a hematopoietic growth factor that promotes the survival, differentiation and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. Produced by T cells, mast cells and eosinophils, IL-3 enhances thrombopoiesis, phagocytosis, and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL-3 may have additional immunoregulatory roles. Many of the IL-3 activities depend upon co-stimulation with other cytokines. IL-3 is a species-specific, variably glycosylated cytokine. Recombinant Rat IL-3beta is a 16.3 kDa globular protein containing 144 amino acid residues.

### Research topic

Immune Response, Infection and Inflammation, Oncology

### Amino Acid Sequence

MISDRGSDAH HLLRTLDCRT IALEILVKLP YPQVSGLNNS DDKANLRNST LRRVNLDEFL KSQEEFDSQD TTDIKSKLQK  
LKCCIPAAAS DSVLPGVYNK DLDDFKKKLR FYVIHLKDLQ PVSVSRPPQP TSSSDNFRPM TVEC

### Source

E. coli

### Purity

98%

### Biological Activity

The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of thymidine uptake by murine MC-9 cells is < 10 ng/ml, corresponding to a specific activity of >1.0×10<sup>5</sup> units/mg.

### Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### Storage, Stability/Shelf Life

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