

## Recombinant Rat IL3

Cat No:HR2R2285

For research use only

### Overview

Quantity	5 ?g
Gene Symbol	IL3
Gene ID	N/A
Accession	P04823
Alternative Name	Hematopoietic growth factor, mast cell growth factor, multipotential colony-stimulating factor, P-cell-stimulating factor
Species	Rat
Source	E. coli
Description	Rat IL3 is a pleiotrophic cytokine produced by activated T cells. IL3 functions via specific cell surface receptors to activate hematopoiesis by controlling the production, differentiation, and proliferation of granulocytes and monocytes. IL3 also affects the activity of mature mast cells, eosinophils, basophils, and macrophages. The high affinity IL3 receptor is composed of an alpha and beta subunit, where the IL3R alpha is a member of the cytokine receptor super family and binds to IL3 with low affinity. The beta subunit does not bind any cytokine but binds to the alpha subunit of the IL3, IL5 and GM-CSF receptors with high affinity. The receptors for IL3 can be found in bone marrow, macrophages, mast cells, megakaryocytes, and other similar cells.
Functions	The ED50 is 1.0-5.0 ng/mL as determined by a cell proliferation assay
Formulation	Lyophilized from a 0.2 ?m filtered solution in PBS
Solubility	Reconstitute in sterile PBS at 100 ?g/mL
Appearance	Lyophilized Powder
Molecular Weight	15.9
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.