## Recombinant human IL3

Catalog No: #AG0002

Description



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Description		
Product Name	Recombinant human IL3	
Host Species	HEK293	
Purification	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC	
Immunogen Description	Ala20-Phe152	
Target Name	IL3	
Other Names	Human IL-3, h-IL-3, rh-IL-3, recombinant IL-3, interleukin-3,TCGF	
Accession No.	Uniprot:P08700Gene ID:3562	
Uniprot	P08700	
GeneID	3562	
Target Species	human	
Calculated MW	15.1 KDa	
Tag Info	addtional amino acid free	
Formulation	0.22 µm filtered solution of PBS, pH 7.4.	
Storage	Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.	

## Background

Interleukin 3 is a pleiotropic factor produced primarily by activated T cells that can stimulate the proliferation and differentiation of pluripotent hematopoietic stem cells as well as various lineage committed progenitors. In addition, IL-3 also affects the functional activity of mature mast cells, basophils, eosinophils and macrophages. Because of its multiple functions and targets, it was originally studied under different names, including mast cell growth factor, P-cell stimulating factor, burst promoting activity, multi-colony stimulating factor, thy-1 inducing factor and WEHI-3 growth factor. In addition to activated T cells, other cell types such as human thymic epithelial cells, activated murine mast cells, murine keratinocytes and neurons/astrocytes can also produce IL-3. At the amino acid sequence level, mature human and murine IL-3 share only 29% sequence identity. Consistent with this lack of homology, IL-3 activity is highly species-specific and human IL-3 does not show activity on murine cells. IL-3 exerts its biological activities through binding to specific cell surface receptors. The high affinity receptor responsible for IL-3 signaling is composed of at least two subunits, an IL-3 specific alpha chain which binds IL-3 with low affinity and a common beta chain that is shared by the IL-5 and GM-CSF high-affinity receptors. Although the beta chain itself does not bind IL-3, it confers high-affinity IL-3 binding in the presence of the alpha chain. Receptors for IL-3 are present on bone marrow progenitors, macrophages, mast cells, eosinophils, megakaryocytes, basophils and various myeloid leukemic cells.

Note: This product is for in vitro research use only