

Product Data Sheet

Inhibitors • Screening Libraries • Proteins

IL-3 Protein, Mouse

Cat. No.:	HY-P7062			
Synonyms:	rMuIL-3; Hematopoietic growth factor; Mast cell growth factor; MCGF; Multipotential colony- stimulating factor; P-cell-stimulating factor			
Species:	Mouse			
Source:	E. coli			
Accession:	P01586 (D33-C166)			
Gene ID:	16187			
Molecular Weight:	Approximately 15.2 kDa			

	· · · · · · · · · · · · · · · · · · ·				
PROPERTIES					
AA Sequence					
	MDTHRLTRTL		GKLPEPELKT		
	SFRRVNLSKF	VESQGEVDPE	DRYVIKSNLQ	KLNCCLPTSA	
	NDSALPGVFI	RDLDDFRKKL	RFYMVHLNDL	ETVLTSRPPQ	
	PASGSVSPNR	GTVEC			
Biological Activity	The ED ₅₀ is <0.2 ng/mL as r	measured by M-NFS-60 cells	s, corresponding to a specific	c activity of >5.2 × 10 ⁶ units	
Appearance	Lyophilized powder				
Formulation	Lyophilized after extensive dialysis against PBS or 50 mM Tris-HCL, 300 mM NaCl, pH 8.0.				
Endotoxin Level	<0.2 EU/µg, determined by LAL method.				
Reconsititution	It is not recommended to r	econstitute to a concentrat	ion less than 100 ug/mL in d	dH_O For long term stora	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				
		nei protein (0.1% B3A, 3%)	113A, 10% FD5 01 5% Henald	JSE).	
Storage & Stability	Stored at -20°C for 2 years.	After reconstitution, it is st	able at 4°C for 1 week or -20°	C for longer (with carrier p	
otorage a otability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). I recommended to freeze aliquots at -20°C or -80°C for extended storage.				
Shipping	Room temperature in cont	inental US; may vary elsew	here.		

DESCRIPTION

BackgroundInterleukin-3 (IL-3) is aglycoprotein belonging to the hematopoietic growth factor family that in preclinical in vitro and in
vivo studies has exhibited a multilineage activity. Recombinant human interleukin-3 (rhIL-3) enhances the mobilization of
peripheral blood progenitor cells by recombinant human granulocyte colony-stimulating factor (rhG-CSF)^[1]. Human
interleukin-3 (hIL-3) is a multipotent hematopoietic cytokine produced by mitogen and antigen-activated keratinocytes, T-
lymphocytes, mast cells, NK cells, monocytes and endothelial cells. The hematopoietic progenitor cells are proliferated and
differentiated with the help of hIL-3 protein into mature erythrocytes, mast cells, megakaryocytes and granulocytes. The

potential use of hIL-3 protein has been extensively tested in various clinical applications such as bone marrow transplantation, hematological malignancies, cytopenias, aplastic anemia and various types of cancer^[2].

REFERENCES

[1]. Huhn RD, et al. Recombinant human interleukin-3 (rhIL-3) enhances the mobilization of peripheral blood progenitor cells by recombinant human granulocyte colonystimulating factor (rhG-CSF) in normal volunteers. Exp Hematol. 1996 Jun;24(7):839-47.

[2]. Dagar VK, et al. Combined effect of gene dosage and process optimization strategies on high-level production of recombinant human interleukin-3 (hIL-3) in Pichia pastoris fed-batch culture. Int J Biol Macromol. 2018 Mar;108:999-1009.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA