

Recombinant Human IL-3 (His, Flag)

Information

Gene ID	3562
Accession #	P08700-1
Alternate Names	Hematopoietic growth factor; MCGF; Multipotential colony-stimulating factor; P-cell-stimulating factor
Source	HEK293
Protein sequence	APMTQTTSLKTSWVNCSNMIDEIITHLKQPPLPLLDFNNLNGEDQDILMENNLRRPNLEAFNRAVKSLQNAS AIESILKNLLPCLPLATAAPTRHPIHIKDPGDWNEFRRKLTFYLKTLENAQAQQTTLSLAIF
Tag	C-His, C-Flag
M.Wt	The protein has a calculated MW of 15.1 KDa.
Appearance	Solution protein.
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage2 years from date of receipt, -20 to -70 °C as supplied.
Concentration	1 mg/mL
Formulation	Supplied as a 0.2 µm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active as determined by a cell proliferation assay using TF-1 human erythroleukemic cells. The EC50 for this effect is 0.4 ng/mL.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	> 95 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/µg as determined by LAL method.

Description

Interleukin-3 (IL-3) is a potent growth-promoting cytokine that belongs to the IL-3 family. IL3/IL-3 also belongs to the interleukin class. Interleukins are produced by a variety of body cells. The function of the immune system is largely dependent on interleukins, and some of the rare defects of interleukins have been described, all of which are characterized by autoimmune diseases or immunodeficiencies. Most interleukins are synthesized by helper CD4+ T lymphocytes as well as monocytes, macrophages, and endothelial cells. They promote the development and differentiation of T, B, and hematopoietic cells. IL3/IL-3 supports the proliferation of a variety of hematopoietic cell types. It is involved in a variety of cellular activities like cell growth, differentiation, and apoptosis. IL3/IL-3 also has neurotrophic activity and may be associated with neurological disorders.













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