

General Information

Synonyms	Human IL3; IL3; IL-3; recombinant IL3; interleukin-3; Mast cell growth factor
Accession #	AAC08706
Source	Human embryonic kidney cell, HEK293-derived human IL3 protein
	Ala20-Phe152
Predicted Molecular weight	15.1 kDa

Components and Storage

Formulation	Solution protein.
	Dissolved in sterile PBS buffer.
	This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

Storage and Stability	Avoid repeated freeze-thaw cycles.
	It is recommended that the protein be aliquoted for optimal storage.
	12 months from date of receipt, -20 to -70 °C as supplied.

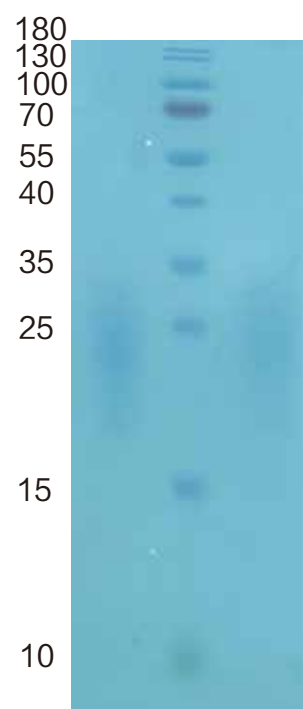
Shipping	Shipping with dry ice.
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Quality

Purity	> 95%, determined by SDS-PAGE.
Endotoxin Level	<0.010 EU per 1 ug of the protein by the LAL method.
Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells.
	The EC50 for this effect is 0.01-0.08 ng/mL.

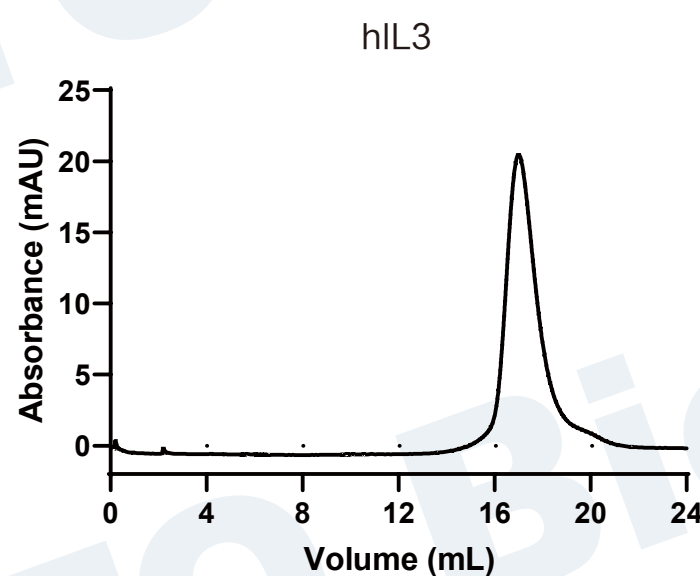
SDS-PAGE

kDa NR R



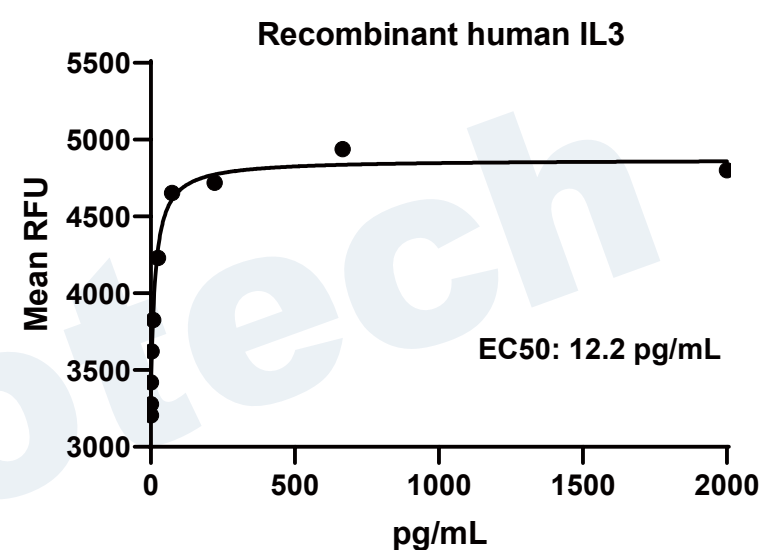
4 ug/lane of recombinant human IL3 was resolved with SDS-PAGE under non-reducing (Lane 1) and reducing (Lane 2) conditions and visualized by Coomassie Blue staining.

Gel filtration



Size-exclusion chromatography of recombinant human IL3 protein (280 nm absorbance)

Bioactivity



Recombinant human IL3 (Catalog # HF-1003) stimulates cell proliferation of the TF-1 human erythroleukemic cells.

Background

Interleukin-3 (IL-3) is a potent growth-promoting cytokine that belongs to the IL-3 family. IL3/IL-3 also belongs to the group of interleukins. Interleukins are produced by a wide variety of body cells. The function of the immune system depends in a large part on interleukins, and rare deficiencies of a number of them have been described, all featuring autoimmune diseases or immune deficiency. The majority of interleukins are synthesized by helper CD4+ T lymphocytes, as well as through monocytes, macrophages, and endothelial cells. They promote the development and differentiation of T, B, and hematopoietic cells. IL3/IL-3 is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation, and apoptosis. IL3/IL-3 has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders.

Reference

1. Meyer CG, et al. (2011) Hum Mol Genet. 20(6):1173-81.
2. Zambrano A, et al. (2010) Curr Alzheimer Res. 7(7):615-24.
3. Dentelli P, et al. (2011) Oncogene. 30(50):4930-40.

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