

## Recombinant Human IL-3

### Information

|                     |   |
|---------------------|---|
| Accession #         | AAC08706  |
| Alternate Names     | Human IL3; IL3; IL-3; recombinant IL3; interleukin-3; Mast cell growth factor   |
| Source              | Human embryonic kidney cell, HEK293-derived human IL3 protein   |
| Protein sequence    | Ala20-Phe152  |
| M.Wt                | 15.1 kDa  |
| Appearance          | Solution protein.   |
| Stability & Storage | Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. 3 years from date of receipt, -20 to -70 °C as supplied.  |
| Concentration       | 0.2 mg/mL   |
| Formulation         | Dissolved in sterile PBS buffer.  |
| 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 | Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The EC50 for this effect is 0.01-0.08 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%, determined by SDS-PAGE.                       |
| Endotoxin | <0.010 EU per 1 ug of the protein by the LAL method. |

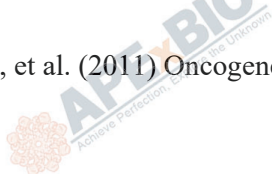
### Description

Interleukin-3 (IL-3) is a potent growth-promoting cytokine that belongs to the IL-3 family. IL3/IL-3 also belongs to the 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<sup>+</sup> 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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