

Recombinant Rhesus Macaque Interleukin-3

Information

Gene ID	706946
Accession #	P25140
Alternate Names	Hematopoietic Growth Factor, MCGF, Multipotential Colony-stimulating Factor, P-cell-stimulating Factor
Source	Escherichia coli.
M.Wt	Approximately 14.0 kDa, a single non-glycosylated polypeptide chain containing 124 amino acids.
AA Sequence	APMTQTTSLK TSWAKCSNMI DEITHLNQP PLPSPDFNNL NEEDQTILVE KNLRRSNLEA FSKAVKSLQN ASAIESILKN LPPCLPMATA APTRPPIRIT NGDRNDFRRK LKFYKLTLEN EQAQ
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, 5 % trehalose.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Assay #1: Fully biologically active when compared to standard. The ED as determined by the dose-dependent stimulation of the proliferation of murine NFS-60 cells is less than 5.0 ng/ml, corresponding to a specific activity of > 2 × 10 IU/mg. Assay #2: The ED as determined by a cell proliferation assay using human TF-1 cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2.0 × 10 IU/mg.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	100µg	500µg
Recombinant Rhesus Macaque Interleukin-3	10µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 98 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/ μ g of rRhIL-3 as determined by LAL method.

Description

Interleukin-3 (IL-3) is an interleukin, a type of biological signal (cytokine) which is encoded by the IL-3 gene located on chromosome 5 and produced primarily by activated T cells beside human thymic epithelial cells, activated murine mast cells, murine keratinocytes and neurons/astrocytes. The protein acts in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. The rhesus macaque IL-3 reported to be a monomer, as it is known, contains 124 amino acids residues which is a single non-glycosylated polypeptide. Specifically, recombinant rhesus macaque, human and murine IL-3 share low homology.

Reference

1. Yang YC, Ciarletta AB, Temple PA, et al. 1986. Cell. 47:3-10
2. Otsuka T, Miyajima A, Brown N, et al. 1988. J Immunol. 140:2288-95
3. Dorssers L, Burger H, Bot F, et al. 1987. Gene. 55:115-24
4. Feng Y, Klein BK, McWherter CA. 1996. J Mol Biol. 259:524-41.

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