Datasheet

Cat. No. P1428

Recombinant Human Interleukin-3 GMP

Information

Gene ID	
Accession #	
Alternate Names	
Source	Escherichia coli.
M.Wt	Approximately 15.0 kDa, a single non-glycosylated polypeptide chain containing 133 amino acids.
AA Sequence	APMTQTTSLK TSWVNCSNMI DEIITHLKQP PLPLLDFNNL NGEDQDILME NNLRRPNLEA FNRAVKSLQN ASAIESILKN LLPCLPLATA APTRHPIHIK DGDWNEFRRK LTFYLKTLEN AQAQQTTLSL AIF
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles A minimum of 12 months when stored at ≤ -20 °C as supplied Refer to lot specific COA for the Use by Date 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, with 0.02 % Tween-20.
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	Fully biologically active when compared to standard. The ED as determined by a cell proliferation assay using human TF-1 cells is less than 0.1 ng/ml, corresponding to a specific activity of > 1.0 × 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	5μg	100μg	
Recombinant Human Interleukin-3 GMP	5μg	100μg	

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Quality Control

Purity	> 98 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 0.01 EU/μg of rHuIL-3 GMP 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 human IL-3 reported to be a monomer, as it is known, contains 133 amino acids residues which is a single non-glycosylated polypeptide. Specifically, human and murine IL-3 share low homology and it does not show activity on murine cells.

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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