

Recombinant Mouse IL-7 (His, Flag)

Information

Gene ID	16196
Accession #	P10168
Alternate Names	IL7; IL-7; Interleukin-7
Source	HEK293
Protein sequence	ECHIKDKEGKAYESVLMISIDELDKMTGTDSNCPNNEPNFFRKHVCDTKEAAFLNRAARKLKQFLKMNISEEFNVHLLTVSQGTQTLVNCTSKEEKNVKEQKKNDAFLKRLLEIKTCWKNKILKGS
Tag	N-Flag & N-His
M.Wt	The protein has a calculated MW of 28.2 KDa.
Appearance	Solution protein
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 36 months 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 PHA-activated human peripheral blood lymphocytes (PBL). The EC50 for this effect is 0.6 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.

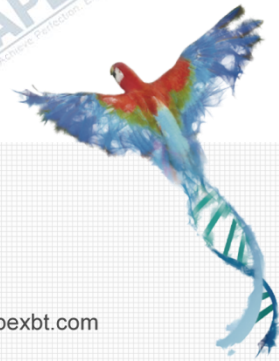
Quality Control

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

Description

Interleukin-7 (IL-7) is a potent lymphoid cell growth factor produced by bone marrow and thymic stromal cells, spleen cells and keratinocytes. IL7 stimulates the proliferation of Pre-B, Pro-B and early T cells. IL-7 can co-stimulate the proliferation of mature T cells in combination with other factors such as ConA and IL-2. Also, IL-7 stimulates the maturation of megakaryocytes and the proliferation and differentiation of NK cells.

The murine IL-7 cDNA encodes a 154 aa protein with a 25 aa signal sequence. Human and murine IL-7 is cross-species reactive. Recombinant murine IL-7 is a 15.0 kDa protein containing 130 amino acid residues.



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