

Recombinant Mouse IL-5, Tag Free

Information

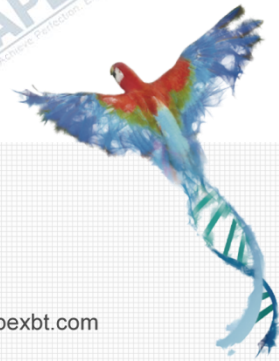
Gene ID	16191
Accession #	P04401
Alternate Names	Interleukin-5, B-cell growth factor II (BCGF-II) , Cytotoxic T-lymphocyte inducer
Source	E.coli
Protein sequence	MEIPMSTVVKETLTQLSAHRALLTSNETMRLPVPPTHKNHQLCIGEIFQGLDILKNQTVRGG TVEMLFQNLSLIKKYIDRQKEKCGEERRRTRQFLDYLQEFGLGVMSTEWAMEG
Tag	Tag free
M.Wt	The protein has a calculated MW of 13.1 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 TF-1 human erythroleukemic cells. The EC50 for this effect is 0.01-0.25 ng/mL. Fully biologically active as determined by a cell proliferation assay using BaF3 mouse pro-B cells transfected with mL-5 R alpha. The EC50 for this effect is 0.3 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

IL-5, also named B-cell differentiation factor I, eosinophil differentiation factor and TRF, is belonging to the cytokine family and the IL-5 gene is in close proximity to the genes encoding IL-3, IL-4, and granulocyte-macrophage colony-stimulating factor (GM-CSF), which are often co-expressed in TH2 cells. Through binding to the IL-5 receptor, IL-5 stimulates B cell growth and increases immunoglobulin secretion. It is also a key mediator in eosinophil activation. Interleukin-5 has long been associated with the cause of several allergic diseases including allergic rhinitis and asthma. The cDNA for murine IL-5 encodes a signal peptide and a 113 amino acid mature protein. Mature murine IL-5 shares 70 %, 94 %, 58 %, 66 %, 59 % and 63 % a.a. sequence identity with human, rat, canine, equine, feline and porcine IL5, respectively. It shows cross-reactivity with human IL5 receptor.



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