

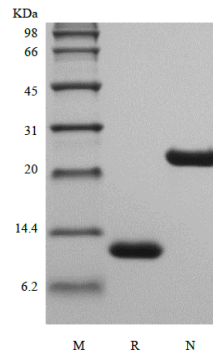
II5

Recombinant Rat IL-5

Catalog No.	CRI234A CRI234B CRI234C	Quantity:	10 µg 100 µg 500 µg
Alternate Names:	Interleukin-5, IL-5, B-cell growth factor II, BCGF-II, Cytotoxic T-lymphocyte inducer, Eosinophil differentiation factor, T-cell replacing factor, TRF		
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. Rat IL-5 is a 132-amino acid (115 in human, 133 in the mouse) -long TH2 cytokine that is part of the hematopoietic family. Unlike other members of this cytokine family (namely IL-3 and GM-CSF), this glycoprotein in its active form is a homodimer.		
UniProt ID:	Q08125		
Source:	<i>E. coli</i>		
Species:	Rattus norvegicus (Rat)		
Molecular Weight:	26.2 kDa (2 x 113 aa) disulfide-linked homodimer		
Formulation:	Lyophilized from sterile filtered PBS, pH 7.4		
Purity:	> 98 % by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	< 1 EU/µg as determined by LAL method.		
Biological Activity:	ED ₅₀ < 0.5 ng/ml, determined by a cell proliferation assay using human TF-1 cells.		
Specific Activity:	> 2.0 × 10 ⁶ IU/mg		
Amino Acid Sequence:	MEIPMSTVVK ETLIQLSTHR ALLTSNETMR LPVPTHKNHQ LCIGEIFQGL DILKNQTVRG GTVEILFQNL SLIKKYIDGQ KEKCGEERRK TRHFLDYLQE FLGVMSTEWA MEV		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.		
Storage & Stability:	Store unopened at -20°C to -80°C for up to 1 year. Following reconstitution, the preparation is stable for up to one week at 2-8°C or in aliquots for 3 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		



SDS-PAGE



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