

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

The *IL5* gene is located on chromosome 11 in rats, in close proximity to the genes encoding IL3, IL4, and granulocyte-macrophage colony-stimulating factor (CSF2), which are often co-expressed in TH2 cells. Through binding to the IL5 receptor, IL5 stimulates B cell growth and increases immunoglobulin secretion and 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 IL5 is a TH2 cytokine that is part of the hematopoietic family. Unlike other members of this cytokine family (namely IL3 and CSF2), this glycoprotein is a homodimer in its active form.

Catalog Number	1510-05
Product Name	IL5, Rat Recombinant Rat Interleukin 5 Colony-Stimulating Factor, eosinophil Eosinophil Differentiation Factor, EDF T-cell replacing factor, TRF
Source	<i>Escherichia coli</i>
MW	~26.2 kDa (2x 113 amino acids)
Sequence	MEIPMSTVVK ETLIQLSTHR ALLTSNETMR LPVPTHKNHQ LCIGEIFQGL DILKNQTVRG GTVEILFQNL SLIKKYIDGQ KEKCGEERRK TRHFLDYLQE FLGVMSTEW A MEV
Accession Number	Q08125
Purity	>98% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 0.5 ng/ml, corresponding to a specific activity of >2.0 × 10 ⁶ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.