



Recombinant Protein Technical Manual

Recombinant Human Interleukin-5/IL-5 Protein (His Tag)(Active)

RPES2561

Product Data:

Product SKU: RPES2561

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P05113

Protein Information:

Molecular Mass: 14.2 kDa

AP Molecular Mass: 20 kDa

Tag: C-6His

Bio-activity: Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 0.1-0.5 ng/ml.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Cell Culture

Synonyms: Interleukin-5;IL-5;B-cell differentiation factor I;Eosinophil differentiation factor;T-cell replacing factor;TRF;IL5

Immunogen Information:

Sequence: Ile20-Ser134

Background:

IL-5 is expressed in eosinophils, NK cells, TC2 CD8+ T cells, mast cells, CD45+ CD4+ T cells, gamma delta T cells and IL beta activated endothelial cells. IL-5 acts as a growth and differentiation factor for both B cells and eosinophils. Relative to B cells, IL-5 appears to induce the differentiation of activated conventional B-2 cells into Ig-secreting cells. In addition, it induces the growth of B progenitors as well as IgM production by B cells. IL-5 appears to perform a number of functions on eosinophils. These include the down modulation of Mac, the upregulation of receptors for IgA and IgG, the stimulation of lipid mediator (leukotriene C4 and PAF) secretion and the induction of granule release. IL-5 also promotes the growth and differentiation of eosinophils.