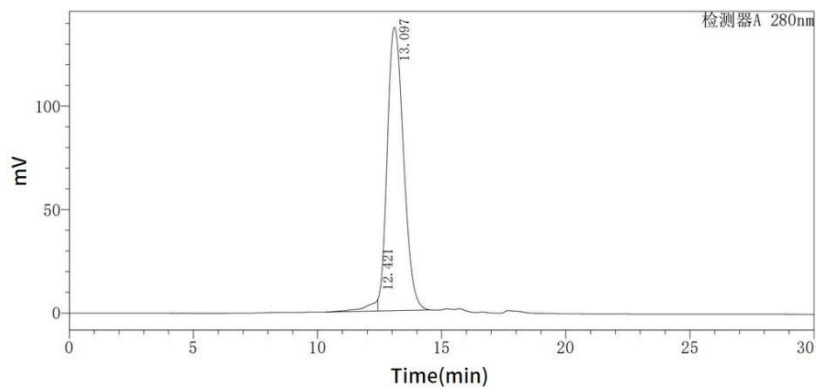


Recombinant Human IL-5 (C-6His)

Catalog#:AC81713 Derived from *Human Cells*

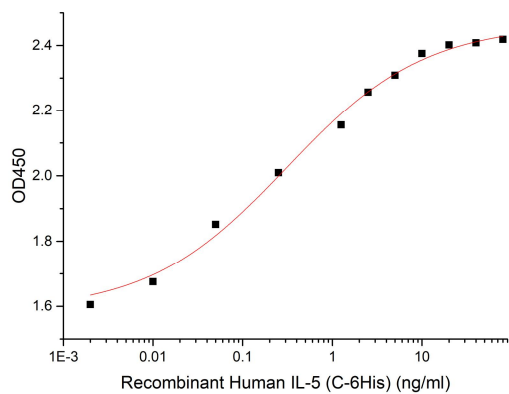
DESCRIPTION	<p>Recombinant Human Interleukin-5 is produced by our Mammalian expression system and the target gene encoding Ile20-Ser134 is expressed with a 6His tag at the C-terminus.</p> <p>Accession#: P05113</p> <p>Known as: Interleukin-5; IL-5; B-cell differentiation factor I; Eosinophil differentiation factor; T-cell replacing factor; TRF; IL5</p>
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
SHIPPING	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
STORAGE	<p>Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt.</p> <p>Reconstituted protein solution can be stored at 2-8°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.</p>
RECONSTITUTION	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100μg/ml.</i></p> <p>Dissolve the lyophilized protein in distilled water</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
QUALITY CONTROL	<p>Mol Mass: 14.2kDa AP Mol Mass: 20kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: < 1 EU/μg as determined by LAL test.</p>
BACKGROUND	<p>IL-5 is expressed in eosinophils, NK cells, TC2 CD8+ T cells, mast cells, CD45+ CD4+ T cells, gamma delta T cells and IL-1 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 Igsecreting cells. In addition, it induces the growth of B-1 progenitors as well as IgM production by B-1 cells.IL-5 appears to perform a number of functions on eosinophils. These include the down modulation of Mac-1,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.</p>
 <p>The image shows an SDS-PAGE gel with two lanes. Lane MK is a molecular weight marker with bands at 120, 90, 60, 40, 30, 20, and 14 kDa. Lane R shows a single prominent band at approximately 14.2 kDa, corresponding to the recombinant Human IL-5 protein.</p>	

Purity-SEC-HPLC:



Greater than 95% as determined by SEC-HPLC.

Bioactivity-Cell Based Assay:



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