

Human CellExp™ IL-5, Human Recombinant

CATALOG NO: P1486-10 10 µg
P1486-50 50 µg

ALTERNATE NAMES: Interleukin-5, IL-5, B-cell differentiation factor I, Eosinophil differentiation factor, T-cell replacing factor, TRF

MOL. WT. 14 kDa with a 6xHis tag at the N-terminus

SOURCE: HEK 293 cells

PURITY: >95%

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered PBS (pH 7.4) with 5% trehalose

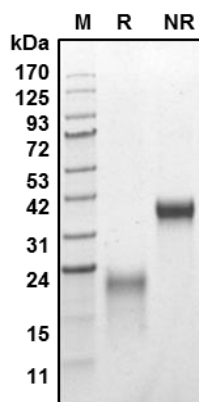
RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS (pH 7.4). Do not vortex.

SPECIFIC ACTIVITY: ED50 is typically < 1 ng/mL. The specific activity was determined by the dose dependent stimulation of the proliferation of Human TF-1 cells using BioVision's Quick Cell Proliferation colorimetric Assay Kit Plus (Cat. No. K302).

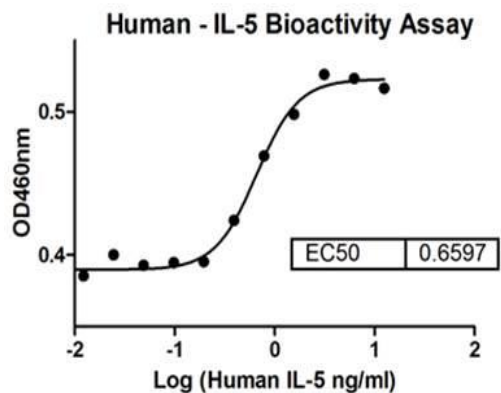
STORAGE CONDITIONS: Aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION: Interleukin-5 (IL-5) is identified by its ability to support the growth and terminal differentiation of mouse B cells to immunoglobulin secreting cells. IL-5 also exerts pleiotropic activities on various target cells including eosinophils and basophils via receptors of IL-5-specific α and common β -subunit. IL-5's stimulation of eosinophil has been implicated in the pathogenesis of allergic inflammatory diseases, such as asthma. Targeting the interleukin-5 pathway offers benefit to patients with severe asthma. Mepolizumab is an anti-interleukin-5 (IL-5) humanized monoclonal antibody that has been approved as an add-on biological treatment for severe eosinophilic asthma, by both the US Food and Drug Administration (FDA) and the European Medicines Agency (EMA).

AMINO ACID SEQUENCE: Ile 20 – Ser 134



SDS-PAGE (4-20%) of Recombinant IL-5: 2 µg of the recombinant IL-5 is loaded under reducing and non-reducing conditions and stained with Coomassie Blue. Lane M: MW Marker, Lane R: reducing (monomer), Lane NR: non-reducing (dimer form)



Biological activity of IL-5: Measured in a cell proliferation assay using BioVision's Colorimetric Assay kit (Cat. No. K302). The ED50 for this effect is typically <1 ng/ml.

RELATED PRODUCTS:

Human CellExp™ IL-10, Human Recombinant (6466)
 Quick Cell Proliferation colorimetric Assay Kit Plus (K302)
 IL-5, human recombinant (4140)
 IL-5, rat recombinant (4142)
 Human CellExp™ IL-2, Human Recombinant (P1385)
 IL-5, murine recombinant (4141)
 IL-5 (Human) ELISA Kit (K4156)

FOR RESEARCH USE ONLY! Not to be used on humans.