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32-6427: IL5 Human, Sf9

Application : Functional Assay

Alternative Name : EDF, BCDFII, TRF, T-cell replacing factor, Eosinophil differentiation factor, B cell differentiation factor I, IL-5.

Description

Source: Sf9, Baculovirus cells.
Sterile filtered colorless solution.
The protein encoded by this gene is a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. This cytokine is a main regulator of eosinopoiesis, eosinophil maturation and activation. The elevated production of this cytokine is reported to be related to asthma or hypereosinophilic syndromes. The receptor of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31.
Interleukin-5 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 124 amino acids (20-134a.a.) and having a molecular mass of 14.2kDa (Molecular size on SDS-PAGE will appear at approximately 13.5-18kDa).IL5 is expressed with a 6 amino acid His-tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	IL5 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	ADPIPTEIPT SALVKETLAL LSTHRTLLIA NETLRIPVPV HKNHQLCTEE IFQGIGTLES QTVQGGTVER LFKNLSLIKK YIDGQKKKCG EERRRVNQFL DYLQEFLGVM NTEWIIESHH HHHH.

Application Note

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED50 for this effect is less or equal to 1.5 ng/ml.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.