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# IL5 Human, Sf9

*Interleukin-5 Human Recombinant, Sf9*
*CYK0456*

## Product Overview

| | |
|---|---|
| Name | IL5 Human, Sf9 |

**Description**

Interleukin-5 Human Recombinant, Sf9

| | |
|---|---|
| Accession (Primary) | P05113 |

**Synonyms**

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

**Introduction**

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.

**Source**

Sf9, Baculovirus cells.

**Physical Appearance**

Sterile filtered colorless solution.

**Formulation**

IL5 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Stability**

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.

**Purity**

Greater than 90.0% as determined by SDS-PAGE.

**Amino acid sequence**

ADP IPTEIPT SALVKETLAL LSTHRTLLIA NETLRIPVPV HKNHQLCTEE IFQGIGTLES QTVQGGTVER LFKNLSLIKK YIDGQKKKCG EERRRVNQFL DYLQEFLGVM NTEWIIESHH HHHH .

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**Biological Activity**

Measured in a cell proliferation assay using TF-1 human erythroleukemic cell. The ED 50 for this effect is less or equal to 1.5 ng/ml.

**Precautions**

IL5 Human, Sf9 is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P05113 )