

Recombinant Human IL-5 (Interleukin-5)

Product Description

IL-5 is a hematopoietic growth factor that stimulates the proliferation and activation of eosinophils. Produced by mast cells, T cells, and eosinophils, IL-5 plays an important role in inducing cell-mediated immunity against parasitic infections and certain tumors. Elevated levels of IL-5 lead to Eosinophilia, which may result in the induction of asthma and other allergic diseases. Human and murine IL-5 is cross-species reactive. Recombinant Human IL-5 is a 26.5 kDa disulfide-linked homodimeric protein containing two 116 amino acid chains.

Typical Specifications

Species	Human
Expression	E. coli Cell Expressed
Activity	Typically ≤ 0.15 ng/mL ED ₅₀
Purity	$\geq 98\%$
Endotoxin	< 1.0 EU/ μ g
Molecular Mass	26.5 kDa, homodimeric
Formulation	20mM Sodium Phosphate, pH 7.5
Country of Origin	USA

Purity Confirmation

This was determined by SDS-PAGE gel and HPLC analysis.

Activity Assay

Determined by its ability to stimulate the proliferation of human TF-1 cells.

AA Sequence

MIPTEIPTSA	LVKETLALLS	THRTLLIANE
TLRIPVPVHK	NHQLCTEEIF	QGIGTLESQT
VQGGTVERLF	KNLSLIKKYI	DGQKKKCGEE
RRRVNQFLDY	LQEFLGVMNT	EWIIES

Reconstitution Buffer

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex.

Storage

This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% HSA) and store in working aliquots at -20°C to -80°C.

Limited Use and Restrictions

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