

Datasheet for ABIN2018127 **IL-5 Protein (AA 20-132)**

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Overview

Quantity:	50 µg
Target:	IL-5 (IL5)
Protein Characteristics:	AA 20-132
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.4 ng/mL, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 2.5x 10 ⁶ units/mg.
Purity:	> 95 % by SDS-PAGE analysis.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IL-5 (IL5)
Alternative Name:	Interleukin-5 (IL-5) (IL5 Products)
Background:	Interleukin-5 (IL-5), produced by mast cells, T cells and eosinophils, is responsible for the activities attributed to eosinophil differentiating factor, B cell growth factor II and T cell-replacing factor (TRF). It can increase production and mobilization of eosinophils and CD34+ progenitors from the bone marrow. IL-5 plays an important role in inducing cell-mediated

Target Details

immunity against parasitic infections and certain tumors. IL-5 also promotes differentiation of basophils and primes them for histamine and leukotriene release. Recombinant rat Interleukin-5 (rrIL-5) produced in E. coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 113 amino acids each. A fully biologically active molecule, rrIL-5 has a molecular mass of 26.0 kDa analyzed by non-reducing SDS-PAGE.

Synonyms: EDF, BCDFII, TRF

Molecular Weight: 26.0 kDa, observed by non-reducing SDS-PAGE.

UniProt: [Q08125](#)

Pathways: [JAK-STAT Signaling](#), [Positive Regulation of Peptide Hormone Secretion](#), [Production of Molecular Mediator of Immune Response](#), [Feeding Behaviour](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against 20 mM Tris, pH 8.5.

Storage: -80 °C

Storage Comment: Lyophilized recombinant rat Interleukin-5 (rrIL-5) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrIL-5 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months