

Datasheet for ABIN2018132 **IL-5 Protein (AA 21-133)**

[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	IL-5 (IL5)
Protein Characteristics:	AA 21-133
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 2.0 ng/mL, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 5.0x 10 ⁵ units/mg.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
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 (rmIL-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 mouse Interleukin-5 (rmIL-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, rmIL-5 has a molecular mass of 26.2 kDa analyzed by non-reducing SDS-PAGE.

Synonyms: EDF, BCDFII, TRF

Molecular Weight:	26.2 kDa, observed by non-reducing SDS-PAGE.
UniProt:	P04401
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
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Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant mouse Interleukin-5 (rmIL-5) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmIL-5 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months