

Recombinant Equine Interleukin 5 (Colony-Stimulating Factor, Eosinophil)

Cat. No. IL5-257E Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Equine IL-5 was expressed in Yeast. MW= 12.9 kDa (114 aa).
Species	Equine
Source	Yeast
Description	Interleukin 5 (IL-5) plays an important role in B cell development by inducing the terminal differentiation of late-developing B cells. Additionally, IL-5 regulates the differentiation, survival and degranulation of eosinophils. IL-5 is expressed predominately by T-lymphocytes and mast cells, and to a lesser extent by eosinophils, natural killer cells and endothelial cells.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.
Amino Acid Sequence	AVESPMNRLV AETLTLSTH RTLLIGDGNL MIPTPEHKNH QLCIEEVFQG IDTLKNQTVQ GDAVAKLFQN LSLIKGYIDL QKKKCGGERW RVKQFLDYLQ EFLGVINTEW TIEG.
Bioactivity	In testing.

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Stability And Storage

Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name

IL5 interleukin 5 (colony-stimulating factor, eosinophil) [*Equus caballus*]

Synonyms

interleukin 5 (colony-stimulating factor, eosinophil); IL5; IL-5; interleukin 5; TRF; T-cell replacing factor; interleukin-5; eosinophil differentiation factor

Gene ID

100034199

mRNA Refseq

NM_001082499.1

Protein Refseq

NP_001075968.1

UniProt ID

O02699

Chromosome Location

14

Pathway

Allograft rejection; Asthma; Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Hematopoietic cell lineage; Intestinal immune network for IgA production; Jak-STAT signaling pathway; T cell receptor signaling pathway

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