

Recombinant Equine IL5 Protein (Leu20-Gly134), C-6×His-tagged

Product Information

Cat	IMP-10473
Official Symbol	IL5
Product Overview	Recombinant Equine IL-5 protein (Leu20-Gly134) with a C-terminal 6×His tag was expressed in Mouse myeloma cell line.
Description	<p>This gene encodes a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. The encoded cytokine plays a major role in the regulation of eosinophil formation, maturation, recruitment and survival. The increased production of this cytokine may be related to pathogenesis of eosinophil-dependent inflammatory diseases. This cytokine functions by binding to its receptor, which 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 is located on chromosome 5 within a cytokine gene cluster which includes interleukin 4 (IL4), interleukin 13 (IL13), and CSF2. This gene, IL4, and IL13 may be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31.</p>
Expression System	Mouse myeloma cell line
Species	Equine
Tag	C-6×His
Predicted N Terminal	Leu20
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Molecular Mass	Predicted Molecular Mass: 13.9 kDa (monomer) SDS-PAGE: 19 kDa, reducing conditions
Protein length	Leu20-Gly134
Bio-activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 4-16 ng/mL.
Endotoxin	
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Notes	Disulfide-linked homodimer
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2

to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution

Reconstitute at 50 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.