

IL-5 Protein, Canine (sf9, His)

Cat. No.:	HY-P73218
Synonyms:	Interleukin-5; IL-5; EDF; Eo-CSF; TRF
Species:	Canine
Source:	Sf9 insect cells
Accession:	Q95J76 (M1-S134)
Gene ID:	403790
Molecular Weight:	17-19 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.5, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	IL-5 Protein is a homodimeric cytokine mainly expressed by T-lymphocytes and NK cells, playing a crucial role in the survival, differentiation, and chemotaxis of eosinophils. It also acts on B-cells, promoting immunoglobulin production, growth, and differentiation. Mechanistically, IL-5 Protein exerts its effects by binding to a receptor composed of IL5RA and CSF2RB subunits, activating kinases such as LYN, SYK, and JAK2. This activation leads to signal propagation through the RAS-MAPK and JAK-STAT5 pathways. IL-5 Protein exists as a disulfide-linked homodimer and interacts with IL5RA and CSF2RB subunits.
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Caution: Product has not been fully validated for medical applications. For research use only.

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