



Recombinant Canine IL-5 Protein [His] (DAGC263)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	A DNA sequence encoding the extracellular domain of canine IL5 (NP_001006951.1) (Met 1-Ser 134) was expressed, with a polyhistidine tag at the N-terminus.
Species	Canine
Purity	> 98 % as determined by SDS-PAGE
Conjugate	His
Applications	SDS-PAGE, ELISA
Predicted N terminal	Val 22
Molecular Weight	The recombinant canine IL5 consists of 123 amino acids and has a predicted molecular mass of 14.5 kDa. As a result of glycosylation, the apparent molecular mass of the canine IL5 is approximately 17-19 kDa in SDS-PAGE under reducing conditions.
Format	Lyophilized
Size	5 µg, 20 µg, 100 µg
Buffer	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.5, 10% gly. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Preservative	None
Storage	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

BACKGROUND

Introduction

Interleukin 5 (IL-5) is a member of the interleukin family with length of 115 amino acids. Interleukins are a group of cytokines (secreted proteins / signaling molecules) that were first seen to be expressed by white blood cells (leukocytes) and has been found in a wide variety of body cells. Interleukin 5 or IL-5 is produced by T helper-2 cells and mast cells. It helps to stimulate B cell growth and increase immunoglobulin secretion and is considered as a key mediator in eosinophil activation. Interleukin 5 (IL-5) has long been associated with several allergic diseases, including allergic rhinitis and asthma. Growth in the number of circulating, airway tissue, and induced sputum eosinophils have been observed in patients with these diseases. IL-5 also had something with the terminally differentiated granulocyte eosinophils. IL-5 was originally found as an eosinophil colony stimulating factor. It has been proved to be a major regulator of eosinophil accumulation in tissues, and can modulate eosinophil behavior at every stage from maturation to survival.

Keywords

IL5; interleukin 5; IL-5; Canine IL5; Canine IL-5; Canien interleukin 5