

Rev04
 Update: Nov,20,2025

DATASHEET

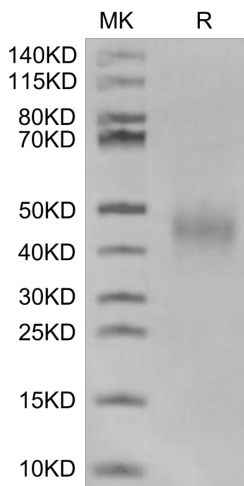
IL-9, His, Mouse

Cat. No.: Z06217

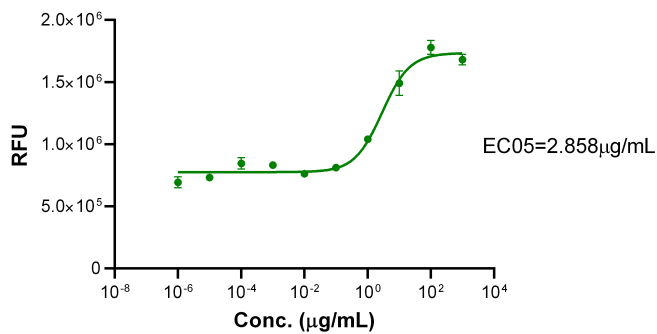
Product Introduction

Species	Mouse
Protein Construction	<div style="display: flex; align-items: center; gap: 10px;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> IL-9 (Gln19-Pro144) Accession # P15247 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	15.4 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 3 months at -80°C. Avoid repeated freeze-thaw cycles.

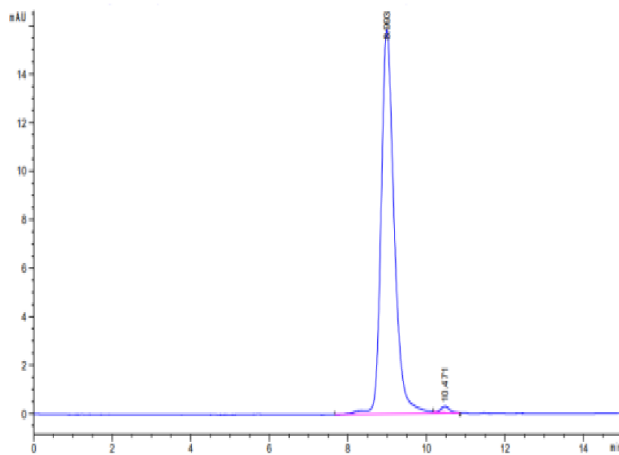
Examples



IL-9, His, Mouse on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 for this effect is < 3 ng/mL.



The purity of IL-9, His, Mouse is greater than 95% as determined by SEC-HPLC.

Background

Target Background : IL-9 is a pleiotropic cytokine that influences various distinct functions of different target cells such as T cells, B cells, mast cells and airway epithelial cells by activating STAT1, STAT3 and STAT5. Because of its pleiotropic functions, IL-9 has been demonstrated to be involved in several diseases, such as cancer, autoimmunity and other pathogen-mediated immune-regulated diseases. In this review, we focus on the role of Th9 and IL-9-producing cells in allergic asthma.

Synonyms : Interleukin-9; IL-9; Cytokine P40; T-cell growth factor P40; HP40; P40

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