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Datasheet for ABIN2018029 IL-9 Protein (AA 19-144)

Overview

Quantity:	50 µg
Target:	IL-9 (IL9)
Protein Characteristics:	AA 19-144
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 1 ng/mL, measured in a cell proliferation assay using MO7e cells, corresponding to a specific activity of > 1x10 ⁶ units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IL-9 (IL9)
Alternative Name:	Interleukin 9 (IL-9) (IL9 Products)
Background:	Interleukin 9, also known as IL9, is a cytokine (cell signalling molecule) belonging to the group of interleukins. The protein encoded by this gene is a cytokine produced by T-cells and specifically by CD4+ helper cells that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the

Target Details

interleukin-9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes. The gene encoding this cytokine has been identified as a candidate gene for asthma. Genetic studies on a mouse model of asthma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial hyperresponsiveness.

Synonyms: p40 cytokine, T-cell growth factor p40

Molecular Weight: 25-40 kDa, observed by non-reducing SDS-PAGE.

UniProt: [P15248](#)

Pathways: [JAK-STAT Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Interleukin 9 (IL-9) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhIL-9 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Expiry Date: 6 months