

## IL-9 Protein, Cynomolgus, Recombinant (His)

### General Information

|                       |   |
|-----------------------|---|
| Synonyms:             | P40;HP40;IL-9;T-cell growth factor P40;Interleukin-9;Cytokine P40   |
| Protein Construction: | Arg19-Ile144  |
| Species:              | Cynomolgus  |
| Expression Host:      | HEK293 Cells  |
| Accession:            | A0A7N9IA33  |
| Molecular Weight:     | 14.01 kDa (predicted). Due to glycosylation, the protein migrates to 25-30 kDa based on Tris-Bis PAGE result. |

### QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity:              | > 95% as determined by Tris-Bis PAGE  |
| Endotoxin:           | < 1 EU/μg by the LAL method.  |
| Formulation:         | Supplied as 0.22 μm filtered solution in PBS (pH 7.4).  |

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

#### Shipping:

Shipping with blue ice.

### Protein 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.

#### Reference

Koch S, Sopel N, Finotto S. Th9 and other IL-9-producing cells in allergic asthma. Semin Immunopathol. 2017 Jan; 39(1):55-68. doi: 10.1007/s00281-016-0601-Epub 2016 Nov 17. PMID: 27858144.

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