

## Product datasheet for **TP723892**

### IL9 (NM\_000590) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interleukin 9 (IL9)
Species:	Human
Expression Host:	Sf9
Expression cDNA Clone or AA Sequence:	Human IL-9, the region of Gln19-Ile144, from gene Accession# NM_000590
Tag:	Tag Free
Predicted MW:	14 kDa
Concentration:	lot specific
Purity:	>90%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS, pH 7.4
Bioactivity:	The ED50 is 0.1-0.5 ng/mL
Endotoxin:	Less than 0.1 EU per µg of protein as determine by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	<a href="#">NP_000581</a>
Locus ID:	3578
UniProt ID:	<a href="#">P15248</a>
RefSeq Size:	591
Cytogenetics:	5q31.1
RefSeq ORF:	432
Synonyms:	HP40; IL-9; P40



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**Summary:**

The protein encoded by this gene is a cytokine that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the 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. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

Asthma, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway