

Product datasheet for **TP728274**

Recombinant IL-9 (Interleukin-9), Human

Product data:

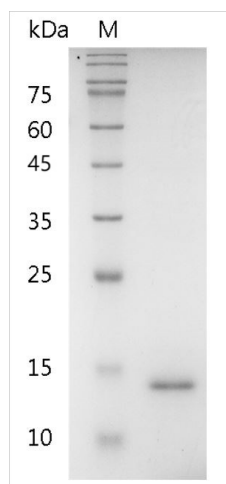
Product Type:	Recombinant Proteins
Description:	Recombinant IL-9 (Interleukin-9), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	QGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCCLGIPSDNCTRPCFSERLSQMTNTTMQTRYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFLKSLL EIFQKEKMRGMRGKI with polyhistidine tag at the N-terminus.
Tag:	His Tag (N-term)
Predicted MW:	The protein has a calculated MW of 14.93 kDa. The protein migrates as 13-17 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0.
Bioactivity:	Measure by its ability to induce proliferation in MO7e cells. The ED ₅₀ for this effect is <0.25 ng/mL. The specific activity of recombinant human IL-9 is approximately >5 x10 ⁶ IU/ mg.
Endotoxin:	<0.01 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P15248
Synonyms:	p40 cytokine, T-cell growth factor p40, HP40



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Summary:

Interleukin 9 (IL-9) is a pleiotropic cytokine that had pleiotropic functions in the immune system, has a molecular mass of 14.5 kDa. The major source of IL-9 is T lymphocytes. It is secreted by CD4+ helper cells that acts as a regulator of a variety of hematopoietic cells.

Product images:

SDS- PAGE analysis of recombinant human IL-9