

Active Recombinant Human IL9 protein, His-tagged

Cat. No. IL9-2327H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human IL9 protein(P15248)(19~144 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	19-144 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interleukin-9 (IL-9), also known as P40 and MEA (mast cell growth-enhancing activity), is a 30-40 kDa protein which was originally identified in mice as a T cell growth factor and is a member of the common γ -chain-receptor cytokine family, with other members including IL-2, IL-4, IL-7, IL-15 and IL-21. IL-9 is produced predominantly by helper T cells such as Th2 and Th9 cells. It normally functions through the activation of a JAK/STAT pathway and plays a critical role in immunity and the pathogenesis of cancer. S100 Calcium Binding Protein A6 (S100A6) is a high affinity receptor for IL-9. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human IL-9 and recombinant mouse S100A6. Briefly, IL-9 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ l were then transferred to S100A6-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL9 pAb,

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then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human IL-9 and recombinant mouse S100A6 was shown, the EC50 for this effect is 0.09 µg/mL.

Molecular Mass	17.8kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	IL9 interleukin 9 [Homo sapiens]
Official Symbol	IL9
Synonyms	IL9; interleukin 9; interleukin-9; homolog of mouse T cell and mast cell growth factor 40; HP40; IL 9; P40; p40 cytokine; p40 T cell and mast cell growth factor; T cell growth factor p40; cytokine P40; T-cell growth factor p40; p40 T-cell and mast cell growth factor; IL-9;
Gene ID	3578

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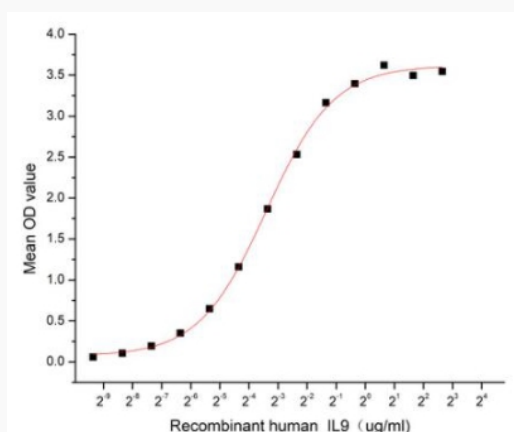
mRNA Refseq [NM_000590](#)

Protein Refseq [NP_000581](#)

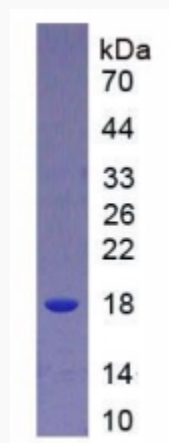
MIM [146931](#)

UniProt ID [P15248](#)

Activity



SDS-PAGE



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