Bioactive

IL9 (Human) Recombinant Protein

Catalog # P8309 Size 2 x 10 ug

Specification

Product Description	Human IL9 (P15248, 18 a.a. - 144 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	MQGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCLCLGIPSDNCTRPCFSERLSQMTNTTMQT RYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFLKSLLEIFQKEKMRGMRGKI
Host	Escherichia coli
Theoretical MW (kDa)	14
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 97% by SDS-PAGE
Activity	The ED_{50} is < 0.2 ng/mL was determined by the dose-dependent stimulation of human MO7e cells, corresponding to a specific activity of 5.0 x 10^6 IU/mg.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — IL9

Entrez GeneID	3578
Protein Accession#	P15248
Gene Name	IL9
Gene Alias	HP40, IL-9, P40
Gene Description	interleukin 9
Omim ID	146931
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cytokine that acts as a regulator of a variety of hematopoiet ic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the i nterleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) prote ins and thus connects this cytokine to various biological processes. The gene encoding this cytoki ne has been identified as a candidate gene for asthma. Genetic studies on a mouse model of ast hma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial hype rresponsiveness. [provided by RefSeq
Other Designations	OTTHUMP00000159423|T-cell growth factor p40|homolog of mouse T cell and mast cell growth f actor 40|p40 T-cell and mast cell growth factor|p40 cytokine

Pathway

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

Disease

- Asthma
- Atherosclerosis
- Berylliosis
- Brain Ischemia
- Bronchial Hyperreactivity

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- Bronchiolitis
- Cardiovascular Diseases
- Celiac Disease
- Chlamydia Infections
- Chorioamnionitis
- Chronic Disease
- Constriction
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Fetal Membranes
- Food Hypersensitivity
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hodgkin Disease
- Hypersensitivity
- Hypertension
- Infant
- Inflammation
- Lymphoma
- Lymphoproliferative Disorders
- Migraine Disorders
- Multiple Myeloma
- Multiple Sclerosis
- Obstetric Labor
- Occupational Diseases

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- Osteoporosis
- Pre-Eclampsia
- Premature Birth
- Recurrence
- Respiratory Hypersensitivity
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Schizophrenia
- Stroke
- Trachoma
- Waldenstrom Macroglobulinemia
- Werner syndrome

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