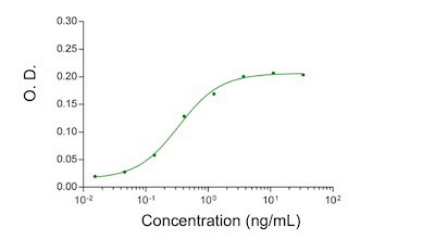
Bioactive

IL9 (Human) Recombinant Protein

Catalog # P7323 Size 10 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human IL9 (P15248, 19 a.a. - 144 a.a) partial recombinant protein expressed in CHO cells.
Sequence	QGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCLCLGIPSDNCTRPCFSERLSQMTNTTMQTR YPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFLKSLLEIFQKEKMRGMRGKI
Host	Hamster
Theoretical MW (kDa)	25 - 40
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/ug of protein by gel clotting method
Activity	ED_{50} < 1.0 ng/mL, measured in a cell proliferation assay using MO7e cells, corresponding to a specific activity of > 1.0×10^6 units/mg.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.

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Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH_2O up to 100 ug/mL.
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

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 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
Other Designations	OTTHUMP00000159423|T-cell growth factor p40|homolog of mouse T cell and mast cell growth factor 40|p40 T-cell and mast cell growth factor|p40 cytokine

Pathway

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

Disease

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

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- Infant
- Inflammation
- Lymphoma
- Lymphoproliferative Disorders
- Migraine Disorders
- Multiple Myeloma
- Multiple Sclerosis
- Obstetric Labor
- Occupational Diseases
- 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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