Recombinant human IL-9 protein

Catalog Number: ATGP3912

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
19-144aa

UniProt No.
P15248

NCBI Accession No.
NP_000581

Alternative Names
IL-9, Interleukin 9, Cytokine P40, T-cell growth factor P40, p40 T-cell and mast cell growth factor, Homolog of mouse T cell and mast cell growth factor 40, HP40, P40

PRODUCT SPECIFICATION

Molecular Weight
14.9 kDa (132aa)

Concentration
0.5mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 85% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 range ≤0.3ng/ml.

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

IL-9, also known as interleukin 9, is a cytokine (cell signalling molecule) belonging to the group ofinterleukins. This protein produced by T-cells and specifically by CD4+ helper cells that acts as a regulatorof a variety of hematopoietic cells and stimulates cell proliferation and prevents apoptosis. It functions throughthe interleukin-9 receptor (IL9R), which activates different signal transducer and activator (STAT)proteins and thus connects this cytokine to various biological processes. Recombinant human IL-9, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

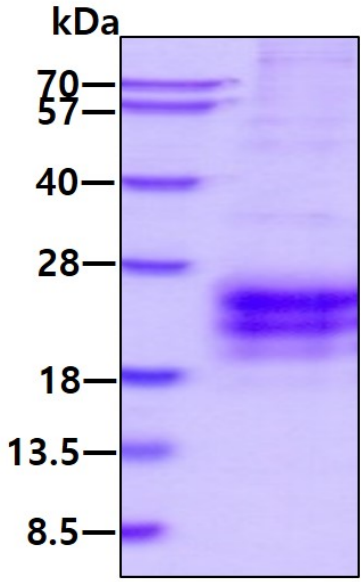
QGCPTLAGIL DINFLINKMQ EDPASKCHCS ANVTSCLCLG IPSDNCTRPC FSERLSQMTN TTMQTRYPLI FSRVKKSVEV LKNNKCPYFS CEQPCNQTTA GNALTFLKSL LEIFQKEKMR GMRGKI<HHHH HH>

General References

Purwar R, Schlapbach C, et al. (2012). Nat Med. 18(8):1248-53.
Pilette C, Ouadrhiri Y, et al. (2002). J Immunol. 168(8):4103-11.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

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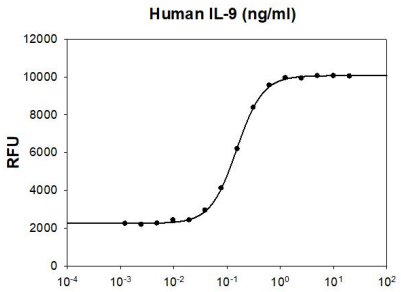

Human IL-9 stimulates cell proliferation of the MO7e human megakaryocytic leukemic cells. The ED50 range ≤0.3 ng/ml.