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California Bioscience

Product Datasheet

Product Name	Interleukin-9 Human Recombinant
Cata No	CB500250
Source	*Escherichia Coli.*
Synonyms	P40, HP40, T-cell growth factor p40, IL-9, P40 cytokine.

Description

Factor that is thought to be a regulator of hematopoiesis. It has been shown to enhance the growth of human mast cells and megakaryoblastic leukemic cells as well as murine helper t-cell clones. IL-9 is a glycoprotein with a molecular weight of 32-39 that is derived from T-cells, and maps to human chromosome 5.

Interleukin-9 Human Recombinant produced in E.Coli is a single, non-glycosylated single polypeptide chain containing 127amino acids and having a molecular mass of 14,004 Dalton.
The IL-9 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The ED50 as determined by the dose-dependant stimulation of human MO7e cells is < 0.2 ng/ml, corresponding to a Specific Activity of 5 x 10^6 IU/mg.

Purity

Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a concentrated (1mg/ml) solution containing no additives.

Stability

Lyophilized Interleukin-9 although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution IL9 should be stored at 4℃ between 2-7 days and for future use below -18℃.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gln-Gly-Cys-Pro.