

Interleukin-9 Rat Recombinant

Item Number	rAP-0652
Synonyms	Interleukin 9, Protein II9, II9.
Description	Interleukin-9 Rat Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 127 amino acids and having a molecular mass of 14.3kDa. The IL-9 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	D4A8I9
Amino Acid Sequence	MQRCSTSWG I QHTSYLIENL KDDPSSK CSC SANVTSCLCL PIPSDDC TTP CFQEGMSQVT NATQQSKFSP FFFRVKRIVE TLKSNKCQFF SCEKPCNQTT AGNTVSFLKS LLKTFQKTEV QVQRSRA.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Interleukin-9 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL9 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	IL9 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Interleukin 9 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by a cell proliferation assay using murine TS1 cells is less than 10 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁵ IU/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**