



Rat IL-9

Rat Interleukin-9, recombinant

Synonyms: Interleukin 9, Protein IL9, IL9.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order#	Lot#	Expiry Date
2 µg	1540.970.002		
10 µg	1540.970.010		
1 mg	1540.970.199		

Please enquire for bulk quantities and other vial sizes.

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 14.3 kDa.

- **Biological Activity** ≥ 1 × 10⁵ IU/mg
- **Source** *E. coli*
- **Purity** ≥ 97 % (SDS-PAGE, RP-HPLC)
- **Endotoxin Level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** IL9 protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4*
- **Physical State** Sterile filtered, lyophilized

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 × 10⁵ IU/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. **Do not vortex.**

Stability

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, order number: 2835.955.xyz or 2835.958.xyz, or BSA, order number: 2835.919.xyz). **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

MQRCSTSWG I QHTSYLIENL KDDPSSK CSC SANVT SCLCL PIPSD DCTTP CFQEGMSQVT NATQQSKFSP
 FFFRVKRIVE TLKSNKCQFF SCEKPCNQTT AGNTVSFLKS LLKTFQKTEV QVQRSRA

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.