

Product Datasheet

RecombinantIL-3,Mouse (orb1494820)

Description

Interleukin-3 (IL-3) is a pleiotropic cytokine belonging to the interleukin family. IL-3 shares similarities with Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) and IL-5: they all have a four-helix bundle structure, are located on the same chromosomes in both human and mouse, are produced by activated T cells, and share receptors. The IL-3/IL-5/GM-CSF receptor family members are all heterodimeric, composed of a receptor-specific α chain and a common β chain. IL-3 is also called multi-colony stimulating factor since it stimulates the development and colony formation of multiple lineages of hematopoietic cells by activating intracellular pathways such as Ras-Raf-ERK and JAK/STAT. IL-3 inhibits apoptosis and promotes cell survival by targeting the anti-apoptotic bcl-2 gene family. Recombinant mouse Interleukin-3 (rmIL-3) produced in E.coli is a single non-glycosylated polypeptide chain containing of 135 amino acids. A fully biologically active molecule, rmIL-3 has a molecular mass of 15.2 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Endotoxins

< 0.2 EU/ μ g, determined by LAL method.

Preservatives

Lyophilized after extensive dialysis against PBS.

Form/Appearance

Lyophilized after extensive dialysis against PBS.

Storage

Lyophilized recombinant mouse Interleukin-3 (rmIL-3) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rmIL-3 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.

Note

For research use only

Application notes

Reconstituted in ddH₂O at 100 μ g/mL.

Protein Sequence

MDTHRLTRT LNCSSIVKEI IGKLPEPELK TDDEGPSLRN KSFRRVNL SK FVESQGEVDP
EDRYVIKSNL QKLNCCLP TS ANDSALPGVF IRDLDDFRKK LRFYMVHLND LETVLT SRPP
QPASGSVSPN RGTVEC

Purity

> 95% by SDS-PAGE analysis.

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Source	Escherichia coli.
MW	15.2 kDa, observed by non-reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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