

Product Datasheet

RecombinantIL-3 β ,Rat (orb1494818)

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 rat Interleukin-3 beta (rrIL-3 beta) produced in E.coli is a single non-glycosylated polypeptide chain containing of 144 amino acids. A fully biologically active molecule, rrIL-3 beta has a molecular mass of 16.3 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 rat Interleukin-3 beta (rrIL-3 beta) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rrIL-3 beta 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	MISDRGSDA HLLRRTLDCR TIALEILVKL PYPQVSGLENN SDDKANLRNS TLRRVNLDEF LKSQEEFDSQ DTTDIKSKLQ KLKCCIPAAA SDSVLPGVYN KDLDDFKKKL RFYVIHLKDL QPVSVSRRPPQ PTSSSDNFRP MTVEC
Purity	> 95% as analyzed by SDS-PAGE and HPLC.

Biorbyt Ltd.

7 Signet Court, Swann's Road,
Cambridge, CB5 8LA, United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

Biorbyt LLC.

68 TW Alexander Drive,
Durham, NC, 27713, United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

Source	Escherichia coli.
MW	16.3 kDa, observed by non-reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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7 Signet Court, Swann's Road,
Cambridge, CB5 8LA, United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

Biorbyt LLC.

68 TW Alexander Drive,
Durham, NC, 27713, United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)