

Product Datasheet

Recombinant Human Interleukin-3 (rHulL-3) (orb1495038)

Description	Interleukin 3 is a pleiotropic factor produced primarily by activated T cells that can stimulate the proliferation and differentiation of pluripotent hematopoietic stem cells as well as various lineage committed progenitors. In addition, IL-3 also affects the functional activity of mature mast cells, basophils, eosinophils and macrophages. Because of its multiple functions and targets, it was originally studied under different names, including mast cell growth factor P-cell stimulating factor, burst promoting activity, multicolony stimulating factor, thy-1 inducing factor and WEHI-3 growth factor. In addition to activated T cells, other cell types such as human thymic epithelial cells, activated murine mast cells, murine keratinocytes and neurons/astrocytes can also produce IL-3. At the amino acid sequence level, mature human and murine IL-3 share only 29% sequence identity. Consistent with this lack of homology, IL-3 activity is highly species-specific and human IL-3 does not show activity on murine cells.
Endotoxins	Less than 1EU/mg of rHulL-3 as determined by LAL method.
Preservatives	Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.
Form/Appearance	Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.
Storage	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Note	For research use only
Application notes	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at -20°C. Further dilutions should be made in appropriate buffered solutions.

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Protein Sequence	APMTQTTSLK TSWVNCSNMI DEIITHLKQP PLPLLDFNNL NGEDQDILME NNLRRPNLEA FNRAVKSLQN ASAIESILKN LLPCLPLATA APTRHPIHIK DGDWNEFRRK LTFYLKTLEN AQAQQTTLSL AIF
Purity	> 97% by SDS-PAGE and HPLC analyses.
Source	Escherichia coli.
MW	Approximately 15 kDa, a single non-glycosylated polypeptide chain containing 133 amino acids.
Expiration Date	6 months from date of receipt.

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