

Overview

Synonyms	IL-11
Description	Interleukin-11 (IL-11) is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1±-stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive mouse plasmacytoma cell line T11. IL-11 contains no cysteine residues or potential glycosylation sites. IL-11 has multiple effects on both hematopoietic and nonhematopoietic cells. Many of the biological effects described for IL-11 overlap those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell dependent development of specific immunoglobulin-secreting B cell.
Accession No	P47873
Species	Mouse
Source	HEK 293
Biological Activity	ED ₅₀ < 3 ng/ml, measured in a cell proliferation assay using T11 cells.
Sequence	GPPAGSPRVS SDPRADLDSA VLLTRSLLD TRQLAAQMRD KFPADGDHSL DSLPTLAMSA GTLGSLQLPG VLTRLRVDLM SYLRHVQWLR RAGGPSLKTLL EPELGALQAR LERLLRRLQL LMSRLALPQA APDQPVIPLG PPASAWGSIR AAHAILGGLH LTLDWAVRGL LLLKTRL

Properties

Measured Molecular Weight	~21 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Mouse Interleukin-11 (IL-11) remains stable up to 6 months when stored at lower than -70°C from date of receipt. Upon reconstitution, Mouse Interleukin-11 (IL-11) should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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