

Overview

Synonyms	A proliferating-inducing ligand, TNFSF13, TRDL-1 alpha.
Description	A Proliferation-inducing Ligand (April) also known as TNSF13A, Tall-2, and TRDL-1, is a member of the TNF ligand (TNFL) superfamily. April is most similar to B-cell activation factor (BAFF) with which it shares 30% sequence identity, compete for two receptors, TACI and BCMA. APRIL is expressed at low levels in lymphoid tissue and is over-expressed by a number of tumors. April has a proliferative effect on both normal and tumor cell lines in vitro and in vivo. APRIL seems to be involved in the regulation of death and proliferation of tumor cells, but there are still contradictory findings regarding its overall biological effects. Recombinant mouse A Proliferation-inducing Ligand (rmApril) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 192 amino acids. A fully biologically active molecule, rmApril has a molecular mass of 21.9kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Mouse
Source	<i>E. coli</i>
Biological Activity	Measured by its ability to induce cell proliferation of RPMI 8226 Cells.
Sequence	<p>MRREVSRLQR SGGPSQKQGE RPWQSLWEQS PDVLEAWKDG AKSRRRRRAVL TQKHKKKHSV LHLVPVNITS KSDSVTEVMW QPVLRRGRGL EAQGDIVRVW DTGIYLLYSQ VLFHDVTFTM GQVVSREGQG RRETFLFCIR SMPSDPDRAV NSCYSAGVFH LHQGDIITVK IPRANAKLSL SPHGTFLLGFV KL</p>

Properties

Measured Molecular Weight	21.9kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses
Formulation	Lyophilized after extensive dialysis against 20mM acetic acid.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	<0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant mouse A Proliferation-inducing Ligand (rmApril) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmApril should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.

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