

## April, Mouse

**Cat. No.:** Z02969-50

**Size:** 50.0 ug

**Synonyms:** A proliferating-inducing ligand, TN-FSF13, 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 *E. coli* 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 at GenScript.

### Amino Acid Sequence:

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00001 MRREVSRLQR SGGPSQKQGE RPWQSLWEQS PDVLEAWKDG
00041 AKSRRRAVL TQKHKKKHSV LHLVPVNITS KSDSVTEVMW
00081 QPVLRRGRGL EAQGDIVRVW DTGIYLLYSQ VLFHDVTFTM
00121 GQVVSREGQG RRETLFRCIR SMPSPDPRAY NSCYSAGVFH
00161 LHQGDIIITVK IPRANAKLSL SPHGTFLGTV KL
```

**Source:** *E. coli*

**Species:** Mouse

**Biological Activity:** Measured by its ability to induce cell proliferation of RPMI 8226 Cells.

**Molecular Weight:** 21.9kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against 20mM acetic acid.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.

**Purity:** > 95% by SDS-PAGE and HPLC analyses

**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.