

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant April, Mouse

Catalog Number: BK0007-1mg

Source: Escherichia coli.

Quantity: 1mg

### 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.

### Molecular Weight:

21.9kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% by SDS-PAGE and HPLC analyses

### Biological Activity:

Measured by its ability to induce cell proliferation of RPMI 8226 Cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against 20mM acetic acid.

### AA Sequence:

```
MRREVSRLQSRGGPSQKQGERPWQSL-  
WEQSPDVLEAWKDGAKSRRRRRAV-  
LTQKHKKKHSVLHLVPVNITSKDSDVTEVMWQP  
VLRRGRGLEAQQGDIVRVWDTGIYLLYSQVLF-  
HDVTFTMGQVVSREGQGR-  
RETLFRCIRSMPSDPDRAYNSCYSAGVFHLHQG-  
DIITVKIPRANAKLSLSPHGTFLGFVKL
```

### Endotoxin:

<0.2 EU/μg, determined by LAL method.

### Reconstitution:

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

### Storage:

Lyophilized recombinant mouse A Proliferation-inducing Ligand (rmApril) remains stable up to 6 months at -80 °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.

### Usage:

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