

## APRIL, Human Recombinant

<b>CATALOG #:</b>	7117-10	10 µg
	7117-50	50 µg
<b>ALTERNATE NAMES:</b>	A Proliferating-inducing Ligand, TNFSF13, TRDL-1α	
<b>SOURCE:</b>	Hi-5 insect cells	
<b>PURITY:</b>	≥ 95% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	16.3 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/µg of protein (<1EU/µg).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.5, 500 mM NaCl and 5% Trehalose.	
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-0.5 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### DESCRIPTION:

APRIL, a member of the TNF superfamily, is expressed in monocytes, macrophages, certain transformed cell lines, certain cancers of colon, and lymphoid tissues. APRIL, along with another TNF family member, BAFF, compete for two receptors, TACI and BCMA. APRIL has the ability to stimulate proliferation of various tumor cell lines including Jurkat T cells and MCF-7 carcinoma cells. Like BAFF, APRIL also stimulates the proliferation of B and T cells. The human APRIL gene codes for at least four alternatively spliced transcriptional variants, which give rise to different isoforms of the APRIL precursor protein. All isoforms can be cleaved by the protease, furin, to release a soluble

C-terminal fragment, which comprises the TNF like receptor binding of the APRIL precursor. Recombinant human APRIL is a soluble 16.3 kDa protein, consisting of 146 amino acid residues.

### BIOLOGICAL ACTIVITY:

Determined by its ability to induce cell death in Jurkat cells.

### AMINO ACID SEQUENCE:

AVLTQKQKKQ HSVLHLVPIN ATSKDDSDVT EVMWQPALRR GRGLQAQGYG  
VRIQDAGVYL LYSQVLFQDV TFTMGQVVSR EGQGRQETLF RCIRSMPSHP  
DRAYNSCYSA GVFHHLHQGDI LSVIIPRARA KLNLSPHGTF LGFVKL

### RELATED PRODUCTS:

- ARRIL, murine recombinant (Cat. No. 7118-10, -50)
- BCMA Antibody (Cat. No. 3557-100)
- Human Cell<sup>exp</sup> Human Recombinant TNF-alpha (Cat # 6482-10, -50)
- TNF-alpha, human recombinant (Cat. No. 1050-10, -50, -1000)
- TNF-alpha, murine recombinant (Cat. No. 1051-10, -50, -1000)
- TNF-alpha, rat recombinant (Cat. No. 1052-10, -50, -1000)
- TNF-alpha Antibody (Cat. No. 3052R-100)
- TNF-alpha Antibody (Cat. No. 3053R-100)
- TNF-alpha Antibody (Cat. No. 3054-100)

**FOR RESEARCH USE ONLY! Not to be used in humans.**