

APRIL, Mouse Recombinant

CATALOG #:	7118-10	10 µg
	7118-50	50 µg
ALTERNATE NAMES:	A Proliferating-inducing Ligand, TNFSF13, TRDL-1α	
SOURCE:	E.coli	
PURITY:	≥ 95% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	21.9 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 5 and 100 mM Arginine.	
STORAGE CONDITIONS:	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 murine APRIL is a soluble 21.9 kDa protein, consisting of 192 amino acid residues.

BIOLOGICAL ACTIVITY:

Determined by its ability to induce cell proliferation of activated T-cells.

AMINO ACID SEQUENCE:

MRREVSRLQR SGGPSQKQGE RPWQSLWEQS PDVLEAWKDG AKSRRRRRAVL
TQKHKKKHSV LHLVPVNITS KDSDVTEVMW QPVLRRGRGL EAQGDIVRVW
DTGIYLLYSQ VLFHDVTFTM QVVVSREGQG RRETLFRCIR SMPSPDRAY
NSCYSAGVFH LHQGDITVK IPRANAKLSL SPHGTFGLGFV KL

RELATED PRODUCTS:

- ARRIL, human recombinant (**Cat. No. 7117-10, -50**)
- BCMA Antibody (**Cat. No. 3557-100**)
- Human Cell^{exp} 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.