

Active Recombinant Human Tumor Necrosis Factor (Ligand) Superfamily, Member 13

Cat. No. TNFSF13-351H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNFSF13 was expressed in Hi-5 Insect cells and purified by using conventional chromatography techniques.
Species	Human
Source	Human
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.
Form	Supplied as a lyophilized powder
Purity	>95% pure by SDS PAGE and HPLC
Sequence	Region of APRIL protein corresponding to amino acids AVLTQKQKKQ HSVLHLVPIN ATSKDDSDVT EVMWQPALRR GRGLQAQGYG VRIQDAGVYL LYSQVLFQDV

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TFTMGQVVSR EGQGRQETLF RCIRSMPSHP DRAYNSCYSA GVFHLHQGDI
LSVIIPRARA KLNLSPHGTF LGFVKL.

Molecular Mass 16.3 kDa

Applications Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions

Endotoxin Levels Endotoxin level is less than 0.1 ng per ug (1 EU/ug).

Bioactivity Tested by its ability to induce IgM secretion by CpG/CD40L treated human naive B cells, at a concentration of 500ng/ml.

Storage Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name TNFSF13 tumor necrosis factor (ligand) superfamily, member 13 [Homo sapiens]

Official Symbol TNFSF13

Synonyms TNFSF13; CD256; TALL2; TRDL-1; ligand; UNQ383/PRO715; TALL-2; TNF-related death ligand 1; a proliferation inducing ligand; a proliferation-inducing ligand; tumor necrosis factor-related death ligand-1; TNF- and APOL-related leukocyte expressed ligand 2; tumor necrosis factor ligand superfamily member 13 epsilon; tumor necrosis factor (ligand) superfamily member 13 transcript variant delta

Gene ID 8741

mRNA Refseq NM_003808

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Protein Refseq	NP_003799
MIM	604472
UniProt ID	O75888
Chromosome Location	17p13.1
Pathway	Cytokine-cytokine receptor interaction; Intestinal immune network for IgA production; Metabolism of RNA; Regulation of mRNA Stability by Proteins that Bind AU-rich Elements; Rheumatoid arthritis; Stabilization of mRNA by HuR
Function	cytokine activity; receptor binding; tumor necrosis factor receptor binding

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