



# Recombinant Human Tumor necrosis factor ligand superfamily member 13B (TNFSF13B), partial (Active)

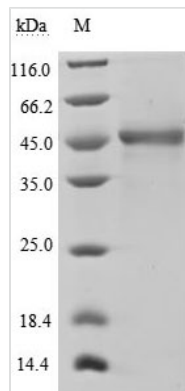
<b>Product Code</b>	CSB-MP897523HU1
<b>Relevance</b>	Cytokine that binds to TNFRSF13B/TACI and TNFRSF17/BCMA. TNFSF13/APRIL binds to the same 2 receptors. Together, they form a 2 ligands -2 receptors pathway involved in the stimulation of B- and T-cell function and the regulation of humoral immunity.
<b>Abbreviation</b>	Recombinant Human TNFSF13B protein, partial (Active)
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9Y275
<b>Form</b>	Lyophilized powder
<b>Product Type</b>	Others
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	①Measured by its binding ability in a functional ELISA. Immobilized TNFSF13B at 10 µg/ml can bind human BCMA (CSB-MP023974HU1), the EC <sub>50</sub> of human TNFSF13B protein is 221.3-298.6 ng/ml.②Human TNFSF13B protein Fc tag (CSB-MP897523HU1) captured on COOH chip can bind Human BCMA protein Fc tag (CSB-MP023974HU1) with an affinity constant of 39 nM as detected by LSPR Assay.③Measured by its binding ability in a functional ELISA. Immobilized TNFSF13B at 2 µg/ml can bind TNFRSF13C(CSB-MP853495HU1), the EC <sub>50</sub> is 9.943-15.72 ng/ml.
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE. Greater than 90% as determined by SEC-HPLC.
<b>Sequence</b>	AVQGPEETVTQDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSAALEEKENKILV KETGYFFIYGQVLYTDKTYAMGHLIQRKKVHVFGDELSLVTLFRCIQNMPETLP NNSCYSAGIAKLEEGDELQLAIPRENAQISLDGDVTFFGALKLL
<b>Research Area</b>	Cancer
<b>Source</b>	Mammalian cell
<b>Target Names</b>	TNFSF13B
<b>Expression Region</b>	134-285aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal hFc-tagged



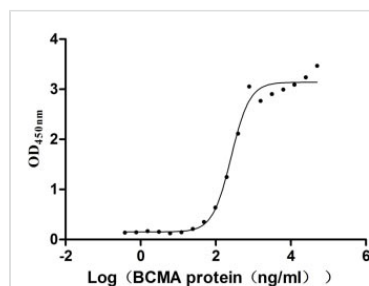
**Mol. Weight** 46.6 kDa

**Protein Length** Partial

**Image**

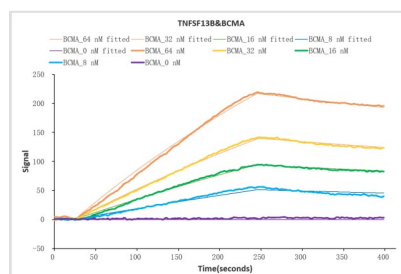


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

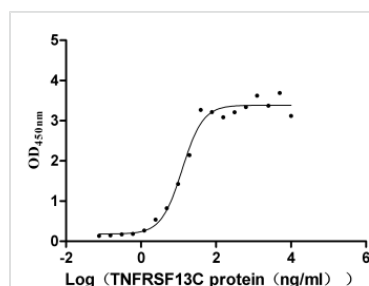


**Activity**

Measured by its binding ability in a functional ELISA. Immobilized TNFSF13B at 10 µg/ml can bind human BCMA (CSB-MP023974HU1), the EC<sub>50</sub> of human TNFSF13B protein is 221.3-298.6 ng/ml.

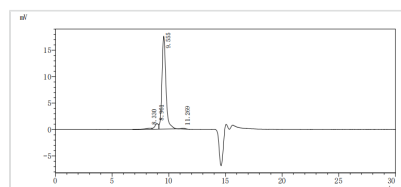


Human TNFSF13B protein Fc tag (CSB-MP897523HU1) captured on COOH chip can bind Human BCMA protein Fc tag (CSB-MP023974HU1) with an affinity constant of 39 nM as detected by LSPR Assay.



**Activity**

Measured by its binding ability in a functional ELISA. Immobilized TNFSF13B at 2 µg/ml can bind TNFRSF13C(CSB-MP853495HU1), the EC<sub>50</sub> is 9.943-15.72 ng/ml.



The purity of TNFSF13B was greater than 90% as determined by SEC-HPLC



## Description

The active recombinant human tumor necrosis factor ligand superfamily member 13B (TNFSF13B) is expressed from mammalian cells, with an N-terminal hFc-tag. Its expression region maps within amino acid residues Ala134-Leu285 of the human TNFSF13B protein. This recombinant human TNFSF13B protein is characterized by high purity (>90%, SDS-PAGE), low endotoxin (<1.0 EU/ug protein, LAL method), and relatively high bioactivity. In the functional ELISA, the immobilized TNFSF13B can bind to the human BCMA or TNFRSF13C, with an EC<sub>50</sub> constant of 221.3-298.6 ng/ml and 9.943-15.72 ng/ml, respectively. In the LSPR assay, the human TNFSF13B protein captured on the COOH chip can bind to the human BCMA, with an affinity constant of 39 nM. And it is in stock now.

TNFSF13B, also known as BAFF, plays an important role in the proliferation and differentiation of B cells. It also influences antibody class switch. TNFSF13B is involved in the pathophysiology of pulmonary diseases.

### Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

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