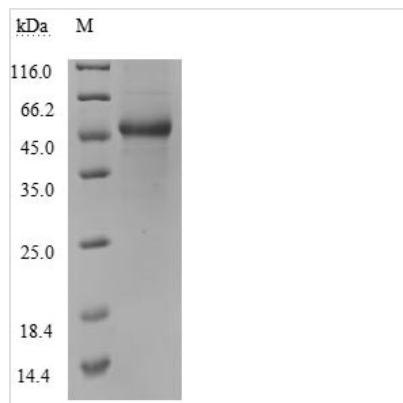




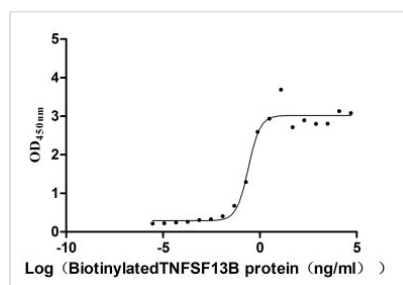
Recombinant Human Tumor necrosis factor ligand superfamily member 13B (TNFSF13B), partial, Biotinylated (Active)

Product Code	CSB-MP897523HU1-B
Storage	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.
Uniprot No.	Q9Y275
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	①Measured by its binding ability in a functional ELISA. Immobilized human BCMA (CSB-MP023974HU1) at 5 µg/ml can bind Biotinylated human TNFSF13B, the EC ₅₀ is 0.1752-0.3657 ng/ml.②Measured by its binding ability in a functional ELISA. Immobilized human TNFRSF13C (CSB-MP853495HU) at 2 µg/ml can bind Biotinylated human TNFSF13B, the EC ₅₀ is 0.2699-0.5613 ng/ml.
Purity	Greater than 90% as determined by SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Sequence	AVQGPEETVTQDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSAL EEKENKILV KETGYFFIYGQVLYTDKTYAMGHLIQRKKVHVFGDELSLVTLFRCIQNMPETLP NNSCYSAGIAKLEEGDELQLAIPRENAQISLDGDVTFFGALKLL
Lead Time	3-7 business days
Source	Mammalian cell
Gene Names	TNFSF13B
Expression Region	134-285aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal hFc-Avi-tagged
Mol. Weight	46.2 kDa
Protein Description	Partial

Image

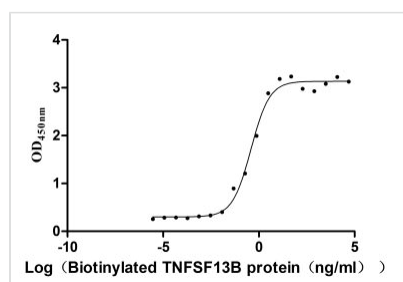


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



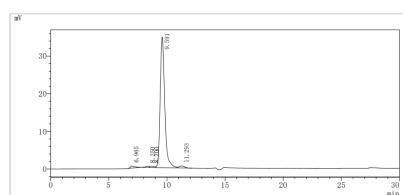
Activity

Measured by its binding ability in a functional ELISA. Immobilized human BCMA (CSB-MP023974HU1) at 5 μ g/ml can bind Biotinylated human TNFSF13B, the EC_{50} is 0.1752-0.3657 ng/ml.



Activity

Measured by its binding ability in a functional ELISA. Immobilized human TNFRSF13C (CSB-MP853495HU) at 2 μ g/ml can bind Biotinylated human TNFSF13B, the EC_{50} is 0.2699-0.5613 ng/ml.



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

Description

The recombinant human TNFSF13B was produced in mammalian cells. The DNA fragment used to prepare the recombinant TNFSF13B protein corresponds to amino acid 134-285 of the human TNFSF13B protein containing an N-terminal hFc-Avi-tag. This TNFSF13B protein is an active protein, whose bio-activity has been validated in the functional ELISA. It binds to the human BCMA or human TNFRSF13C, with the EC_{50} of 0.1752-0.3657 ng/ml or 0.2699-0.5613 ng/ml, respectively. Its purity reaches up to 90%, determined by SDS-PAGE. This TNFSF13B protein has an apparent molecular mass of 46 kDa on the gel while its predicted mass is 46.2 kDa. Its endotoxin is less than 1.0 EU/ug measured by the LAL method. It is available now.

TNFSF13B, also called BAFF, modulates B cell survival, maturation, and differentiation by binding to its receptors, BAFF-R, TACI, and BCMA.



Upregulation of BAFF is related to autoimmune diseases, including systemic lupus erythematosus, rheumatoid arthritis, and multiple myeloma. BAFF/BAFFR signaling is involved in the regulation of protein synthesis and energy metabolism required to extend the half-life of immature, transitional, and mature B cells, as well as other survival functions.

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.