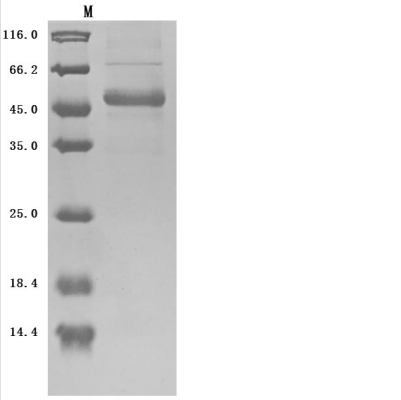
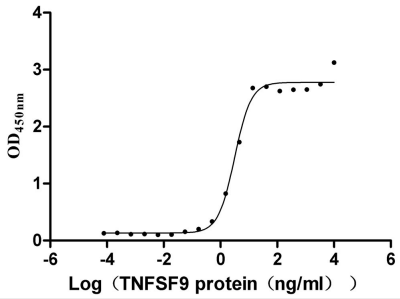
Recombinant Human Tumor necrosis factor ligand superfamily member 9 (TNFSF9), partial (Active)

Product Code	CSB-MP023997HU1
Abbreviation	Recombinant Human TNFSF9 protein, partial (Active)
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.	P41273
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	Measured by its binding ability in a functional ELISA. Immobilized TNFSF9 at 2 μg/mL can bind TNFRSF9?CSB-MP023984HU1?, the EC_{50} is 2.671-3.702 ng/mL.
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	REGPELSPDDPAGLLDLRQGMFAQLVAQNVLLIDGPLSWYSDPGLAGVSLTG GLSYKEDTKELVVAKAGVYYVFFQLELRRVVAGEGSGSVSLALHLQPLRSAAG AAALALTVDLPPASSEARNSAFGFQGRLLHLSAGQRLGVHLHTEARARHAWQ LTQGATVLGLFRVTPEIPAGLPSPRSE
Research Area	Cancer
Source	Mammalian cell
Target Names	TNFSF9
Expression Region	71-254aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal hFc-Myc-tagged
Mol. Weight	48.0 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 TNFSF9 at 2 μg/ml can bind TNFRSF9?CSB-MP023984HU1?, the EC_{50} is 2.671-3.702 ng/mL.

Description

The recombinant human TNFSF9 protein is an active protein generated in mammalian cells. Its expression region encodes the Arg71-Glu254 of human TNFSF9. It is tagged a human Ig1 Fc-Myc at the N-terminus. The purity of this TNFSF9 protein is greater than 90% measured by SDS-PAGE. It contains less than 1.0 EU endotoxin per ug protein determined by the LAL method. Its biological activity was assayed by binding toTNFRSF9 in a functional ELISA, and the EC_{50} is 2.671-3.702 ng/mL.

TNFSF9, also called 4-1BBL, is the natural ligand for TNFRSF9 (4-1BB) and is mainly expressed on activated antigen-presenting cells, including macrophages, monocytes, dendritic cells, B cells, and activated T cells. TNFSF9 is also detected on the surface of some cancer cells. TNFSF9 interacting with TNFRSF9 recruits TRAFs, especially TRAF2, activating the NF-κB pathway and MAPK pathway involving T cell activation, proliferation, differentiation, and apoptosis. TNFSF9/TNFRSF9 signaling has been found to mediate anti-tumor immune responses in immune cells such as T cells, NK cells, and APC, which suggests its potential to be a new antitumor biotherapy.

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

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.