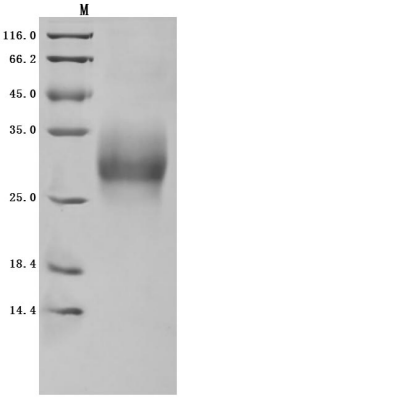
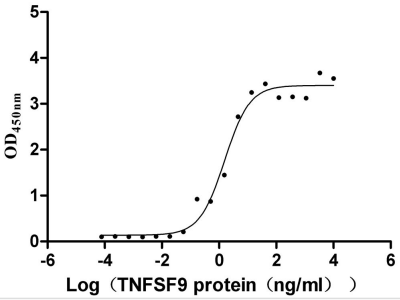
Recombinant Human Tumor necrosis factor receptor superfamily member 9 (TNFRSF9), partial (Active)

Product Code	CSB-MP023984HU1
Abbreviation	Recombinant Human TNFRSF9 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.	Q07011
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 TNFRSF9 at 2 μg/mL can bind TNFSF9?CSB-MP023997HU1?, the EC_{50} is 1.011-2.429 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	LQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFRTR KECSSTSNAECDCTPGFHCLGAGCSMCEQDCKQGQELTKKGCKDCCFGTFN DQKRGICRPWTNCSLDGKSVLVNGTKERDVVCGPSPADLSPGASSVTPPAPA REPGHSPQ
Research Area	Cancer
Source	Mammalian cell
Target Names	TNFRSF9
Expression Region	24-186aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	19.1 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 TNFRSF9 at 2 μg/ml can bind TNFSF9?CSB-MP023997HU1?, the EC_{50} is 1.011-2.429 ng/mL.

Description

Human TNFRSF9, amino acid Leu24-Gln186, with an N-terminal linker and a C-terminal 10xHis-tag, was expressed in the mammalian cells. The product is the recombinant human TNFRSF9 protein. It is biologically active, high in purity (>95%), and low in endotoxin content (<1EU/μg). In the functional ELISA, this TNFRSF9 protein can bind to the TNFSF9 with the EC_{50} of 1.011-2.429 ng/mL. It has an apparent molecular weight of approximately 28 kDa on the gel. This TNFRSF0 protein may find use in cancer research.

TNFRSF9, also called 4-1BB or CD137, is an inducible co-stimulatory receptor mainly expressed on activated T cells. TNFRSF9/TNFSF9 signaling plays an important role in the activation, proliferation, differentiation, and apoptosis of T cells, as well as the pathogenesis of some autoimmune diseases. TNFRSF9/TNFSF9 signaling also mediates anti-tumor immune responses of immune cells such as T cells and NK cells. TNFRSF9 is widely used in second-generation CAR-T cell therapy, and TNFRSF9-related bispecific antibody has been developed for clinical research in cancer treatment.

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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of lyophilized form is 12 months at -20°C/-80°C.