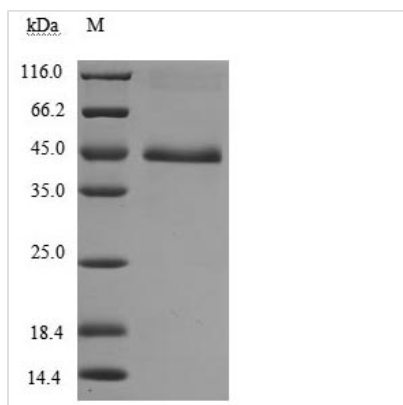


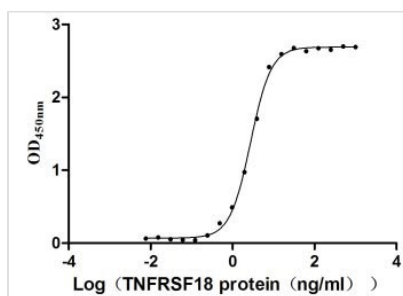


Recombinant Human Tumor necrosis factor receptor superfamily member 18 (TNFRSF18), partial (Active)

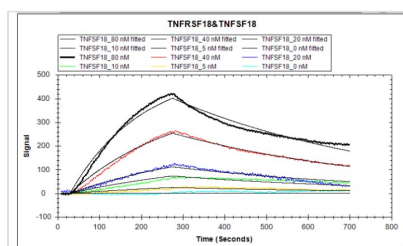
Product Code	CSB-MP896537HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9Y5U5
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 TNFRSF18 at 2 µg/ml can bind TNFSF18 (CSB-MP891791HU), the EC ₅₀ is 2.565 to 2.940 ng/ml.②Human TNFRSF18 protein hFc tag (CSB-MP896537HU) captured on COOH chip can bind Human TNFSF18 protein hFc and Flag tag (CSB-MP891791HU) with an affinity constant of 38.5 nM as detected by LSPR Assay.
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QRPTGGPGCGPGRLLLLGTGTDARCCRVHTTRCCRDYPGEECCSEWDCMCV QPEFHCGDPCCTTCRHHPCPPGQGVQSQGKFSFGFQCIDCASGTFSGGHEG HCKPWTDCTQFGFLTVPGNKTHNAVCPGSPPAEP
Lead Time	3-7 business days
Source	Mammalian cell
Gene Names	TNFRSF18
Expression Region	26-162aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal hFc-tagged
Mol. Weight	40.8 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 TNFRSF18 at 2 µg/ml can bind TNFSF18 (CSB-MP891791HU), the EC₅₀ is 2.565 to 2.940 ng/ml.



Activity
Human TNFRSF18 protein hFc tag (CSB-MP896537HU) captured on COOH chip can bind Human TNFSF18 protein hFc and Flag tag (CSB-MP891791HU) with an affinity constant of 38.5 nM as detected by LSPR Assay.

Description

Human TNFRSF18 amino acids Gln26-Pro162, with a C-terminal hFc-tag as well as an N-terminal linker, were expressed in mammalian cells. The product is the recombinant human TNFRSF18 protein. The SDS-PAGE analysis determined its purity greater than 90% and showed a molecular weight band of about 45 kDa on the gel. It contains low levels of endotoxin, less than 1.0 EU/ug measured by the LAL method. Functional ELISA and LSPR assay of this TNFRSF18 protein showed that it is an active protein. This protein is in stock so that it will reach your lab bench faster.

TNFRSF18, also known as GITR, is expressed on Tregs and some activated immune cells, including effector T lymphocytes, NK cells, and neutrophils. TNFRSF18 ligation with effector T cells can elicit a positive costimulatory signal and promote T cell activation and proliferation, while evocation of TNFRSF18 on Tregs blocks their inhibitory functions. Studies have shown that TNFRSF18/TNFSF18 signaling is implicated in the pathogenesis of inflammation, autoimmune diseases, and tumor.

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.