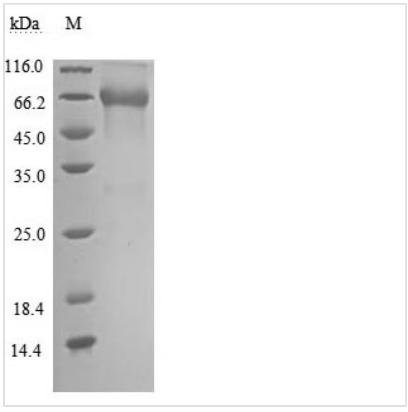
Recombinant Human Tumor necrosis factor receptor superfamily member 1B (TNFRSF1B), partial (Active)

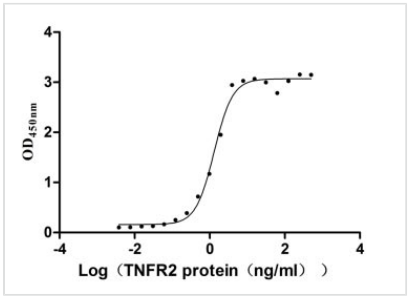
Product Code	CSB-MP023978HU2
Relevance	Receptor with high affinity for TNFSF2/TNF-alpha and approximately 5-fold lower affinity for homotrimeric TNFSF1/lymphotoxin-alpha. The TRAF1/TRAF2 complex recruits the apoptotic suppressors BIRC2 and BIRC3 to TNFRSF1B/TNFR2. This receptor mediates most of the metabolic effects of TNF-alpha. Isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity.
Abbreviation	Recombinant Human TNFRSF1B 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.	P20333
Form	Lyophilized powder
Product Type	Others
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized TNF-α (CSB-YP023955HU) at 5 μg/ml can bind human TNFR2, the EC_{50} of human TNFR2 protein is 1.162-1.481 ng/ml.②Measured by its binding ability in a functional ELISA. Immobilized LTA (CSB-MP013218HU) at 5 μg/ml can bind human TNFRSF1B, the EC_{50} is 1.632-2.699 ng/ml.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	LPAQVAFTPYAPEPGSTCRLREYYDQTAQMCCSKCSPGQHAKVFCTKTSDTV CDSCEDSTYTQLWNWVPECLSCGSRCSSDQVETQACTREQNRICTCRPGWY CALSKQEGCRLCAPLRKCRPGFGVARPGTETSDVVCKPCAPGTFSNTTSSTDI CRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPT PEPSTAPSTSFLLPMGPSPPAEGSTGD
Research Area	Cancer
Source	Mammalian cell
Target Names	TNFRSF1B
Expression Region	23-257aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal hFc1-tagged

Mol. Weight	54.1 kDa
Protein Length	Partial

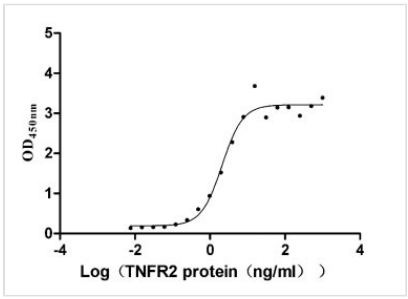
Image



(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 TNF-α (CSB-YP023955HU) at 5 μg/ml can bind human TNFR2, the EC_{50} of human TNFR2 protein is 1.162-1.481 ng/ml.



Activity
Measured by its binding ability in a functional ELISA. Immobilized LTA (CSB-MP013218HU) at 5 μg/ml can bind human TNFRSF1B, the EC_{50} is 1.632-2.699 ng/ml.

Description

A DNA fragment encoding amino acid residues Leu23 to Asp257 of the human TNFRSF1B was fused with a hFc-tag at the C-terminus and then expressed in mammalian cells. The product is the recombinant human TNFRSF1B protein. Its purity is greater than 95% determined by SDS-PAGE. Under reducing conditions, the TNFRSF1B protein migrated to the molecular mass band of approximately 65 kDa on the gel. Its endotoxin content is less than 1.0 EU/ug measured by the LAL method. This recombinant TNFRSF1B protein is in stock now.

TNFRSF1, also called TNF-R2, is a receptor for TNF-α and is restricted to immune cells, endothelial cells, neural cells, and mesenchymal stem cells (MSCs). TNFα/TNFR2 interaction mediates pro-inflammatory effects, cell survival, and proliferation, and promotes angiogenesis.

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.