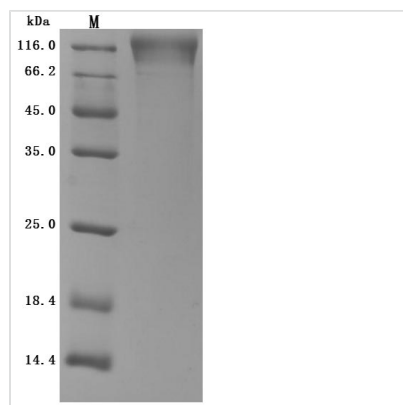


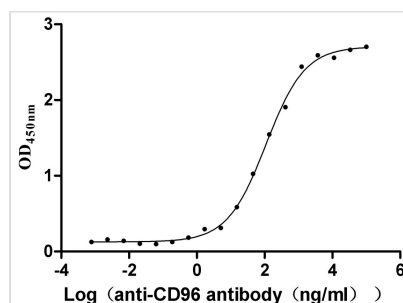


Recombinant Human T-cell surface protein tactile (CD96), partial (Active)

Product Code	CSB-MP004971HU1(F2)
Abbreviation	Recombinant Human CD96 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.	P40200
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD96 at 2 µg/mL can bind anti-CD96 antibody ?CSB-RA004971A0HU?, the EC ₅₀ is 95.78-127.1 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	VWEKTVNTEENVYATLGSDVNLTCQTQTVGFFVQMQWSKVTNKIDLIAVYHP QYGFYCA YGRPCESLVTFETEPENGSKWTLHLRNMSCSVSGRYECMLVLYPE GIQTKIYNLLIQTHVTADEWNSNHTIEIEINQTL EIPCFQNSSSKISSEFTYAWSV EDNGTQETLISQNHLSNSTLLKDRVKLGT DYRLHLSPVQIFDDGRKF SCHIRV GPNKILRSSTTVKVFAKPEIPVIVENNSTDV LVERRFTCLLKNVFPKANITW FIDG SFLHDEKEGIYITNEERKKGKDG FLELKS VLTRVHSNKPAQSDNLTIWCMALSPV PGNKVWNISSEKITFLLGSEISSTD PPLSVTESTLDTQPSPASSVSPARYPATSS VTLVDVSALRPNTTPQPSNSSMTTRGFNYPWTSSGTDTKKSVSRIPSETYSSS PSGAGSTLHDNVFTSTARAFSEVPTTANGSTKTNHVHITGIVVNKPKDGM
Source	Mammalian cell
Target Names	CD96
Expression Region	22-503aa
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	56.3 kDa
Protein Length	Partial of Isoform 2
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 CD96 at 2 µg/ml can bind anti-CD96 antibody ?CSB-RA004971A0HU?, the EC₅₀ is 95.78-127.1 ng/mL.

Description

Recombinant human CD96 protein was expressed with sequence Val22-Met503 of the human CD96 that was fused with a 10xHis-tag at the C-terminus in mammalian cells. Its purity is greater than 95%. Its activity and endotoxin have also been determined.

CD96 is primarily expressed by cells of hematopoietic origin, in specific on T and NK cells. CD96 plays an important role in anti-tumor immune responses and is an ideal candidate for cancer immunotherapy. It has suppressive but also activating NK cell modulating functions and is involved in the regulation of NK cell effector and metastasis. Many studies have revealed the role of the human CD96/human CD155 interaction in target cell elimination by NK cells. Human CD96 upregulation has been found in subpopulations of T-acute lymphoblastic leukemia and AML and has been associated with poor prognosis and increased resistance to chemotherapy. Human CD96 is thus a biomarker for acute myeloid leukemia stem cells (LSC) and is thus a potential target for LSC-specific therapy to treat AML.

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.