

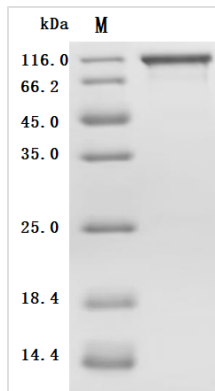


# Recombinant Mouse Serotransferrin (Tf) (Active)

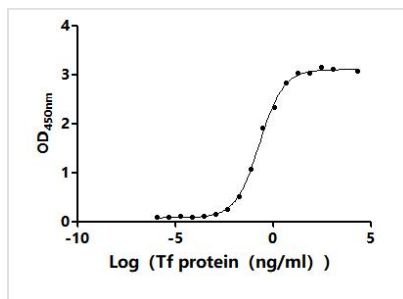
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>        | CSB-MP856363MO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Abbreviation</b>        | Recombinant Mouse Tf protein (Active)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>             | 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?/-80?. The shelf life of lyophilized form is 12 months at -20?/-80?.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Uniprot No.</b>         | Q921I1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Form</b>                | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Buffer</b>      | Lyophilized from a 0.2 μm sterile filtered PBS, 6% Trehalose, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Product Type</b>        | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen Species</b>   | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Biological Activity</b> | <p>①Measured by its binding ability in a functional ELISA. Immobilized Rat Tfrc at 2 μg/mL can bind Mouse Tf (CSB-MP856363MO). The EC50 is 0.1424-0.3233 ng/mL.</p> <p>②Mouse Tf (CSB-MP856363MO) captured on Protein A Chip can bind Recombinant Rat Tfrc with an affinity constant of 0.362 nM as detected by MetaSPR Assay (WeSPRTM 200).</p>                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>              | Greater than 95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequence</b>            | VPDKTVKWCAVSEHENTKCISFRDHMKTVLPPDGPRLACVKKTSYPDCIKAIS<br>ASEADAMTLDGGWVYDAGLTPNNLKPVAAEFYGSVEHPQTYYYAVAVVKKG<br>TDFQLNQLEGKKSCHTGLGRSAGWVPIGILLFCKLSEPRSPLEKAVSSFFSGSC<br>VPCADPVAFPKLCQLCPGCGCSSTQPFYGVGAFKCLKDGGGDVAFVKHTTI<br>FEVLPEKADRDQYELLCLDNTRKVPDQYEDCYLARIPSHAVVARKNNGKEDLI<br>WEILKVAQEHFGKGKSKDFQLFSSPLGKDLLFKDSAFGLLRVPPRMDYRLYL<br>GHNYYTAIRNQQEGVCPEGSIDNSPVKWCALSHLERTKCDEWSIISEGKIECESA<br>ETTEDCIEKIVNGEADAMTLDGGHAYIAGQCGLVPVMAEYYESSNCAIPSQQGI<br>FPKGYAVAVVKASDTSITWNNLKGKKSCHTGVDRTAGWNIPMGMLYNRINH<br>CKFDEFFSQGCAPGYEKNSTLCDLCIGPLKCAPNNKEEYNGYTGAFRCLVEK<br>GDVAFVKHQTVLDNTEGKNPAEWAKNLKQEDFELLCPDGTRKPKVDFASCHL<br>AQAPNHVVVSRKEKAARVKAVLTSQETLFGGSDCTGNFCLFKSTTKDLLFRDD<br>TKCFVKLPEGTTPEKYLGAEYMQSVGNMRKCSTSRLLLEACTFHKH |
| <b>Source</b>              | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Target Names</b>        | Tf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Expression Region</b>   | 20-697aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Notes</b>               | Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Tag Info</b>            | C-terminal mFc-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Mol. Weight</b>         | 104.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |


**Protein Length**

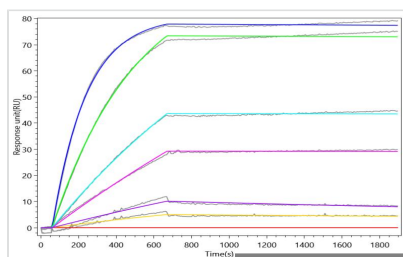
Full Length of Mature Protein

**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 Rat Tfrc at 2 µg/ml can bind Mouse Tf (CSB-MP856363MO). The EC<sub>50</sub> is 0.1424-0.3233 ng/mL.



**Activity**  
Mouse Tf (CSB-MP856363MO) captured on Protein A Chip can bind Recombinant Rat Tfrc with an affinity constant of 0.362 nM as detected by MetaSPR Assay (WeSPRTM 200).

**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.