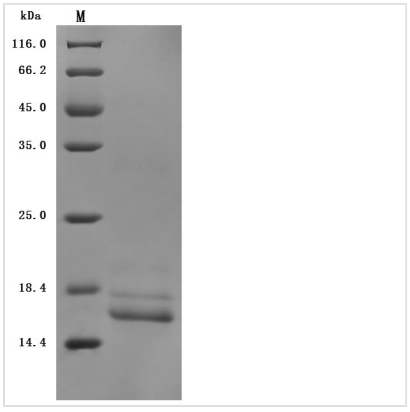
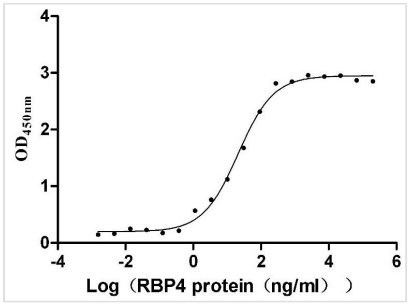
Recombinant Mouse Transthyretin (Ttr) (Active)

Product Code	CSB-MP025270MO
Abbreviation	Recombinant Mouse Ttr protein (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.	P07309
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	Mus musculus (Mouse)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse Ttr at 5 μg/mL can bind Mouse Rbp4 (CSB-MP4018MO), the EC_{50} is 17.06-26.23 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	GPAGAGESKCPLMVKVLDAVRGSPAVDVAVKVFKKTSEGSWEPFASGKTAES GELHGLTTDEKFVEGVYRVELDTKSYWKTLGISPFHEFADVVFTANDSGHRHY TIAALLSPYSYSTTAVVSNPQN
Source	Mammalian cell
Target Names	Ttr
Expression Region	21-147aa
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	16.4 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 Mouse Ttr at 5 μg/ml can bind Mouse Rbp4 (CSB-MP4018MO), the EC_{50} is 17.06-26.23 ng/mL.

Description

This Recombinant Mouse Transthyretin (Ttr) was produced in mammalian cell, where the gene sequence encoding mouse Ttr (21-147aa) was expressed with the C-terminal 10xHis tag. The purity of this Ttr protein was greater than 95% by SDS-PAGE. The activity was validated.

Transthyretin (TTR), also known as vitamin A-binding protein, prealbumin, and thyroid-binding prealbumin, is mainly secreted by the liver and distributed in plasma and cerebrospinal fluid. The main function of TTR in the body is to participate in the transport of thyroxine and retinol, and maintain the normal levels of retinol, thyroxine and retinol-binding protein in the body. TTR can sensitively reflect the nutritional status and pathological changes of the body. It has been proved that TTR is related to various diseases of the human body, such as familial thyroid amyloidosis and diabetes. And many studies have also shown that the expression of TTR in the plasma and tumor cells of patients with various tumors is abnormal, so TTR is considered as one of the candidate tumor markers.

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.