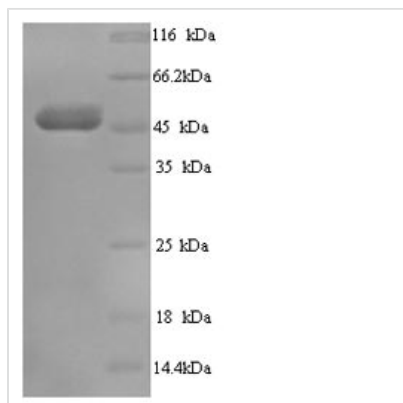




Recombinant Human Transcobalamin-1 (TCN1)

Product Code	CSB-YP023317HU
Relevance	Binds vitamin B12 with fmolar affinity and protects it from the acidic environment of the stomach.
Abbreviation	Recombinant Human TCN1 protein
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.	P20061
Alias	Haptocorrin ;HCPProtein RTranscobalamin I ;TC I ;TCI
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	EICEVSEENYIRLKPLLNTMIQSNYNRGTSAVNVVLSLKLVGIIQITLMQKMIQQI KYNVKSRLSDVSSGELALIILALGVCRNAEENLIYDYHLIDKLENKFQAEIENME AHNGTPLTNYYQLSLDVLALCLFNGNYSTAEEVNHFTPENKNYYFGSQFSVDT GAMAVLALTCVKKSLINGQIKADEGSLKNISIYTKSLVEKILSEKKENGLIGNTF TGEAMQALFVSSDYNNENDWNCQQTTLNLTVEISQGAFSNPNAAAQVLPALM GKTFLDINKDSSCVSASGNFNISADEPITVTPDSQSYISVNYSVRINETYFTNV TVLNGSVFLSVMEKAQKMNDTIFGFTMEERSWGPYITCIQGLCANNNDRTYW ELLSGGEPLSQGAGSYVVRNGENLEVRWSKY
Research Area	Signal Transduction
Source	Yeast
Target Names	TCN1
Protein Names	Recommended name: Transcobalamin-1 Short name= TC-1 Alternative name(s): Transcobalamin I Short name= TC I Short name= TCI
Expression Region	24-433aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	47.6kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The product CSB-YP023317HU is a recombinant human transcobalamin-1 (TCN1) expressed in the yeast. Its target gene sequence corresponds to amino acids 24-433 of the human TCN1. The 6xHis-tag is fused to the protein at the N-terminus. Its purity is greater than 90% determined by SDS-PAGE. It migrated to the molecular weight band of 45-50 kDa. This recombinant TCN1 protein is a full-length of the mature protein. It is available now. The target protein TCN1 is a glycoprotein produced by the salivary glands of the mouth. The primary function of this protein is to protect cobalamin (Vitamin B12) from acid degradation in the stomach by producing a Haptocorrin-Vitamin B12 complex.

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.