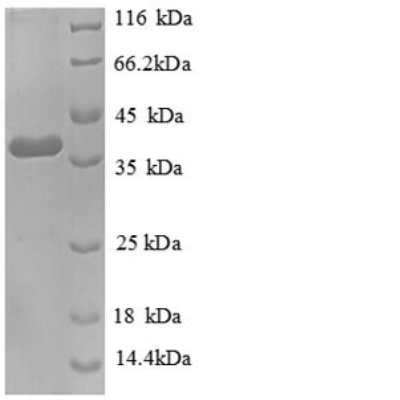
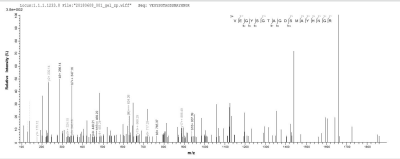
Recombinant Human Tenascin (TNC), partial

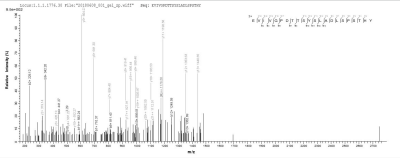
Product Code	CSB-EP023954HU1a0
Relevance	Extracellular domain matrix protein implicated in guidance of migrating neurons as well as axons during development, synaptic plasticity as well as neuronal regeneration. Promotes neurite outgrowth from cortical neurons grown on a monolayer of astrocytes. Ligand for integrins alpha-8/beta-1, alpha-9/beta-1, alpha-V/beta-3 and alpha-V/beta-6.
Abbreviation	Recombinant Human TNC protein, partial
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.	P24821
Alias	Cytotactin;GMEMGP 150-225Glioma-associated-Extracellular domain matrix antigenHexabrachionJIMyotendinous antigenNeuronectin;Tenascin-C ;TN-C
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DSPRDLTATEVQSETALLTWRPPRASVTGYLLVYESVDGTVKEVIVGPDTTSY SLADLSPSTHYTAKIQALNGPLRSNMIQTIFTTIGLLYPFPKDCSQAMLNGDTTS GLYTIYLNGDKAEALEVFCDMTSDGGGWIVFLRRKNGRENFYQNWKAYAAGF GDRREEFWLGLDNLNKITAQGQYELRVDLRDHGETAFAVYDKFSVGDAKTRY KLKVEGYSGTAGDSMAYHNGRSFSTFDKDTDSAITNCALSYKGAFWYRNCHR VNLMGRYGDNNHSQGVNWFHWKGHEHSIQFAEMKLRPSNFRNLEGRRKRA
Research Area	Signal Transduction
Source	E.coli
Target Names	TNC
Expression Region	1888-2201aa
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	39.5kDa
Protein Length	Partial
Image	



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-RP115094h(C) could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) TNC.



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Description

The preparation of this recombinant Human TNC protein was to use gene recombination DNA technology to obtain a recombinant vector connected with a TNC fragment (1888-2201aa) that could be translated into the TNC protein and then transferred it into E.coli cells to express the recombinant TNC protein molecule. In order to get the target protein with high purity, N-terminal 6xHis tag was used in the production. The purity is 90% determined by SDS-PAGE.

Tenascin is an extracellular matrix protein with a spatially and temporally restricted tissue distribution. This protein is homohexameric with disulfide-linked subunits, and contains multiple EGF-like and fibronectin type-III domains. TNC level is undetectable in most adult tissues but rapidly and transiently induced by a handful of pro-inflammatory cytokines in a variety of pathological conditions including infection, inflammation, fibrosis, and wound healing. The increased deposition of TNC has been reported in the tumor stroma of most epithelial malignancies arising, for example, in the breast, uterus (both the cervix and body), ovary, prostate, pancreas, colon, stomach, mouth, larynx, lung, urinary tract, and skin. Interactions between epithelial (cancer) and stroma cells induce the expression of TNC by both cells, thereby facilitating the remodeling of cancer tissues. Deposited TNC in the cancer stroma modulates the cell behaviors of both cell types by interactions between cells and ECM that are mediated through integrins.

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

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