

Recombinant Human TNC Partial Protein, His-tagged

Cat. No. TNC-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNC Partial Protein (1888-2201 aa) with a N-terminal 6xHis tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1888-2201
Description	This gene encodes 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. It is implicated in guidance of migrating neurons as well as axons during development, synaptic plasticity, and neuronal regeneration.
Form	Liquid or Lyophilized powder
Molecular Mass	39.5 kDa
AA Sequence	DSPRDLTATEVQSETALLTWRPPRASVTGYLLVYESVDGTVKEVIVGPDTTSSYSLAD LSPSTHYTAKIQALNGPLRSNMIQTIFTTIGLLYPFPKDCSQAMLNGDTTSGLYTIYLN GDKAEALEVFCDMTSDGGGWIVFLRRKNGRENFYQNWKAYAAGFGDRREEFWLG LDNLNKITAQQGQYELRVDLRDHGETAFAYDKFSVGDAKTRYKLKVEGYSGTAGDS MAYHNGRSFSTFDKDTDSAITNCALSYPKAFWYRNCHRVNLMGRYGDNNHSQGV NWFHWKGHEHSIQFAEMKLRPSNFRNLEGRRKRA

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Purity	> 90 % as determined by SDS-PAGE.
Stability	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 centigrade. The shelf life of lyophilized form is 12 months at -20/-80 centigrade.
Storage	Store at -20 centigrade/-80 centigrade upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5 %-50 % glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6 % Trehalose, pH 8.0.
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/-80 centigrade. Our default final concentration of glycerol is 50 %. Customers could use it as reference.

GENE INFORMATION

Gene Name	TNC tenascin C [Homo sapiens (human)]
Official Symbol	TNC
Synonyms	TNC; tenascin C; GP; JI; TN; HXB; GMEM; TN-C; DFNA56; 150-225; tenascin; GP 150-225; cytotactin; deafness, autosomal dominant 56; glioma-associated-extracellular matrix antigen; hexabrachion (tenascin); myotendinous antigen; neuronectin; tenascin-C additional domain 1

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Gene ID 3371

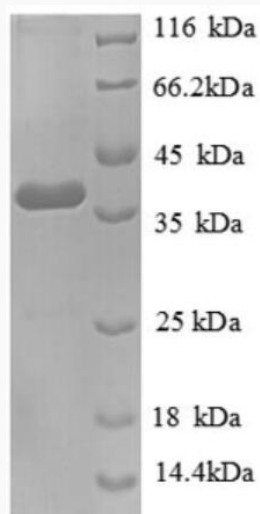
mRNA Refseq NM_002160

Protein Refseq NP_002151

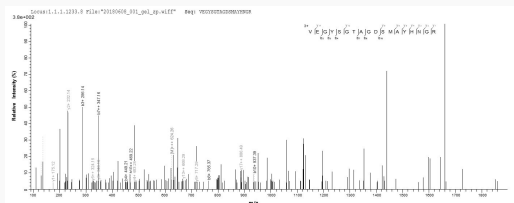
MIM 187380

UniProt ID P24821

SDS-PAGE



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



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Mass spectrum of the sample showing relative intensity (%) versus m/z. The base peak is at m/z 43. Other significant peaks are labeled with their m/z values.

m/z	Relative Intensity (%)
41	100
43	100
45	100
55	100
57	100
69	100
71	100
83	100
85	100
97	100
99	100
111	100
113	100
125	100
127	100
139	100
141	100
153	100
155	100
167	100
169	100
181	100
183	100
195	100
197	100
209	100
211	100
223	100
225	100
237	100
239	100
251	100
253	100
265	100
267	100
279	100
281	100
293	100
295	100
307	100
309	100
321	100
323	100
335	100
337	100
349	100
351	100
363	100
365	100
377	100
379	100
391	100
393	100
405	100
407	100
419	100
421	100
431	100
433	100
445	100
447	100
459	100
461	100
473	100
475	100
487	100
489	100
501	100
503	100
515	100
517	100
529	100
531	100
543	100
545	100
557	100
559	100
571	100
573	100
585	100
587	100
599	100
601	100
613	100
615	100
627	100
629	100
641	100
643	100
655	100
657	100
669	100
671	100
683	100
685	100
697	100
699	100
711	100
713	100
725	100
727	100
739	100
741	100
753	100
755	100
767	100
769	100
781	100
783	100
795	100
797	100
809	100
811	100
823	100
825	100
837	100
839	100
851	100
853	100
865	100
867	100
879	100
881	100
893	100
895	100
907	100
909	100
921	100
923	100
935	100
937	100
949	100
951	100
963	100
965	100
977	100
979	100
991	100
993	100
1005	100
1007	100
1019	100
1021	100
1033	100
1035	100
1047	100
1049	100
1061	100
1063	100
1075	100
1077	100
1089	100
1091	100
1103	100
1105	100
1117	100
1119	100
1131	100
1133	100
1145	100
1147	100
1159	100
1161	100
1173	100
1175	100
1187	100
1189	100
1201	100
1203	100
1215	100
1217	100
1229	100
1231	100
1243	100
1245	100
1257	100
1259	100
1271	100
1273	100
1285	100
1287	100
1299	100
1301	100
1313	100
1315	100
1327	100
1329	100
1341	

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.