

Recombinant Human Tenascin C/TNC Protein

Catalog No.: RP02798 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3371	P24821

Tags

C-His

Synonyms

TNC; HXB; Tenascin; TN; Cytotactin;
GMEM; GP 150-225; Glioma-associated-
extracellular matrix antigen;
Hexabrachion; JI; Myotendinous antigen;
Neuronectin; Tenascin-C; TN-C

Product Information

Source	Purification
HEK293 cells	> 95% by SDS- PAGE.

Calculated MW	Observed MW
65.27 kDa	66-70 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1-0.5 mg/mL in sterile distilled water.
Avoid vortex or vigorously pipetting the
protein. For long term storage, it is
recommended to add a carrier protein or
stabilizer (e.g. 0.1% BSA, 5% HSA, 10%
FBS or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

Tenascin C/TNC is a member of the Tenascin family of extracellular matrix proteins. It is secreted as a disulfide-linked homohexamer whose subunits can vary in size from approximately 200 kDa to over 300 kDa due to differences in glycosylation. Hman Tenascin C monomer is synthesized as a precursor with a 22 amino acid (aa) signal sequence and a 2179 aa mature chain. Mature human Tenascin C (isoform 1) shares 84% aa sequence identity with mature mouse Tenascin C. In the developing embryo, Tenascin C is expressed during neural, skeletal, and vascular morphogenesis. In the adult, it virtually disappears with continued basal expression detectable only in tendon-associated tissues. However, great up-regulation in expression occurs in tissues undergoing remodeling processes seen during wound repair and neovascularization or in pathological states such as inflammation or tumorigenesis.

Basic Information

Description

Recombinant Human Tenascin C/TNC Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly23-Ser621) of Human Tenascin C/TNC (Accession #NP_002151.2) fused with a His tag at the C-terminus.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

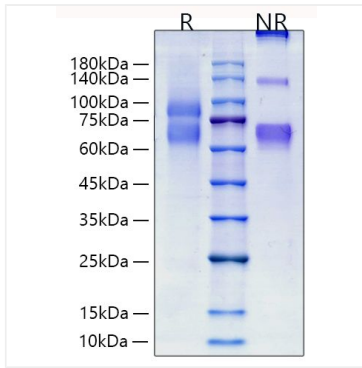
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Validation Data



Recombinant Human Tenascin C/TNC Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions.