

Tetranectin Protein, Human, Recombinant (His)

General Information

Synonyms:	CLEC3B;TN;C-type lectin domain family 3, member B;TNA
Protein Construction:	A DNA sequence encoding the second extracellular domain of human CLEC3B (AAX37102.1) (Met 1-Val 202) was fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Glu 22
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAX37102.1
Molecular Weight:	21.5 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Tetranectin (TN), also known as C-type lectin domain family 3, member B (CLEC3B) is a member of the C-type lectin Family. It is plasminogen kringle 4 binding protein and regulates fibrinolysis and proteolytic processes via binding to plasminogen. Tetranectin has been suggested to play a role in tissue remodeling, due to its ability to stimulate plasminogen activation and its expression in developing tissues such as developing bone and muscle. Tetranectin

enhances plasminogen activation by a tissue-type plasminogen activator so that it has been suggested to play a role in tissue remodeling. Tetranectin may play a role in the wound healing process. Tetranectin may play a role in neurological diseases and may serve as a diagnostic aid in multiple sclerosis (MS). Tetranectin was found significantly under-expressed in both serum and saliva of metastatic oral squamous cell carcinoma (OSCC) compared to primary OSCC. Tetranectin is thought to enhance proteolytic processes enabling tumor cells to invade and metastasize.

Reference

- Iba K, et al. (2001) Mice with a targeted deletion of the tetranectin gene exhibit a spinal deformity. *Mol Cell Biol.* 21 (22): 7817-25.
- Stoevring B, et al. (2006) Tetranectin in cerebrospinal fluid of patients with multiple sclerosis. *Scand J Clin Lab Invest.* 66(7): 577-83.
- Brunner A, et al. (2007) Expression and prognostic significance of Tetranectin in invasive and non-invasive bladder cancer. *Virchows Arch.* 450(6): 659-64.
- Iba K, et al. (2009) Impaired cutaneous wound healing in mice lacking tetranectin. *Wound Repair Regen.* 17(1): 108-12.
- Arellano-Garcia ME, et al. (2010) Identification of tetranectin as a potential biomarker for metastatic oral cancer. *Int J Mol Sci.* 11(9): 3106-21.
- Wang L, et al. (2010) Tetranectin is a potential biomarker in cerebrospinal fluid and serum of patients with epilepsy. *Clin Chim Acta.* 411(7-8): 581-3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481