

ADAMTSL1 Protein, Human, Recombinant (His)

General Information

Synonyms:	PUNCTIN;ADAMTSL-1;C9orf94;ADAMTS-like 1;ADAMTSR1
Protein Construction:	A DNA sequence encoding the human ADAMTSL1 (Met 1-His439) (Q8N6G6-2) was expressed, with a C-terminal polyhistidine tag. Predicted N terminal: Glu 29
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q8N6G6-2
Molecular Weight:	47.1 kDa (predicted); 48 kDa (reducing condition, due to glycosylation)

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:	> 95 % 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 20 mM Tris, 500 mM NaCl, 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

ADAMTSL1 is a secreted molecule resembling members of the ADAMTS protein family of matrix metalloproteinases. Both ADAMTS proteins and ADAM protein family contain a disintegrin and a metalloprotease domain. Metallospandins is collective term for members of ADAMTS protein family. ADAMTS proteins lack the EGF-like domain found normally in members of the ADAM protein family. They also do not possess the canonical disintegrin sequence found in the ADAM protein family. It contains the domains found in members of the ADAMTS

protein family with the exception of the pro-metalloprotease and the disintegrin-like domain typical of this family. ADAMTSL1 gene is expressed in adult skeletal muscle. ADAMTSL1 may play an important role in the extracellular matrix as it is deposited in the cell substratum in a punctate fashion and is excluded from focal contacts.

Reference

Hirohata S, et al. (2002) Punctin, a novel ADAMTS-like molecule, ADAMTSL-1, in extracellular matrix. J Biol Chem. 277 (14): 12182-9.

Wang LW, et al. (2007) O-fucosylation of thrombospondin type 1 repeats in ADAMTS-like-1/punctin-1 regulates secretion: implications for the ADAMTS superfamily. J Biol Chem. 282 (23): 17024-31.

Hall NG, et al. (2004) ADAMTSL-3/punctin-2, a novel glycoprotein in extracellular matrix related to the ADAMTS family of metalloproteases. Matrix Biol. 22 (6): 501-10.

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