

Human ADAMTSL1 / PUNCTIN Protein (His Tag)

Catalog Number: 13550-H08B



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

ADAMTSL-1; ADAMTSR1; C9orf94; PUNCTIN

Protein Construction:

A DNA sequence encoding the human ADAMTSL1 (Met 1-His439) (Q8N6G6-2) was expressed, with a C-terminal polyhistidine tag.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ile 24

Molecular Mass:

The secreted recombinant human ADAMTSL1 consists of 421 amino acids and predicts a molecular mass of 47 KDa. The apparent molecular mass of the protein is approximately 48 Kda in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

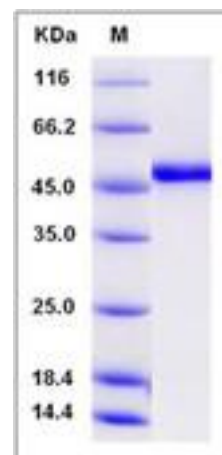
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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.

References

- 1.Hirohata S, *et al.* (2002) Punctin, a novel ADAMTS-like molecule, ADAMTSL-1, in extracellular matrix. *J Biol Chem.* 277 (14): 12182-9.
- 2.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.
- 3.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.

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