

Recombinant Human ADAMTS18 protein, GST-tagged

Cat. No. ADAMTS18-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADAMTS18(892 - 1060 aa) fused with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	892-1060 a.a.
Description	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. ADAMTS family members share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The encoded preproprotein is proteolytically processed to generate the mature protein, which may regulate hemostatic balance and function as a tumor suppressor. Mutations in this gene may be associated with microcornea, myopic chorioretinal atrophy, and telecanthus (MMCAT) and cone-rod dystrophy in human patients.
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.). Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
AA Sequence	GYINVKAICLRDQNTQVNSSFCSAKTKPVTEPKICNAFSCPAYWMPGEWSTCSKAC

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AGGQQSRKIQCVQKKPFQKEEAVLHSLCPVSTPTQVQACNSHACPPQWSLGPWS
QCSKTCGRGVRKRELLCKGSAETLPESQCTSLRPELQEGCVLGRCPKNSRLQW
VASS

Purity 75%, by SDS-PAGE with Coomassie Brilliant Blue staining.

Storage

Stability and Storage:
Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder.
Storage of Reconstituted Protein:
Short-term storage: Store at 2-8 centigrade for two weeks.
Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

Reconstitution

Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).
If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).
Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

GENE INFORMATION

Gene Name ADAMTS18 ADAM metalloproteinase with thrombospondin type 1 motif, 18 [Homo sapiens]

Official Symbol ADAMTS18

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Synonyms	ADAMTS18; ADAM metallopeptidase with thrombospondin type 1 motif, 18; a disintegrin like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 18 , ADAMTS21; A disintegrin and metalloproteinase with thrombospondin motifs 18; disintegrin and metalloprotease-like protein; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 18; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 21; KNO2; ADAMTS21;
Gene ID	170692
mRNA Refseq	NM_199355
Protein Refseq	NP_955387
MIM	607512
UniProt ID	Q8TE60
Chromosome Location	16q23
Function	metal ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;