

Recombinant Human ADAMTS5 protein, His & T7-tagged

Cat. No. ADAMTS5-1755H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADAMTS5 aa. (Glu485~Pro622 (Accession # Q9UNA0)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu485~Pro622
Description	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of the family 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 enzyme. This enzyme contains two C-terminal TS motifs and functions as an aggrecanase that cleaves aggrecan, a major proteoglycan of cartilage, and may mediate cartilage destruction in osteoarthritis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.0kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	9.3

GENE INFORMATION

Gene Name	ADAMTS5 ADAM metalloproteinase with thrombospondin type 1 motif 5 [Homo sapiens (human)]
Official Symbol	ADAMTS5
Synonyms	ADAMTS5; ADAM metalloproteinase with thrombospondin type 1 motif 5; ADMP-2; ADAM-TS5; ADAMTS-5; ADAMTS11; ADAM-TS 5; ADAMTS-11; ADAM-TS 11; A disintegrin and metalloproteinase with thrombospondin motifs 5; a disintegrin and metalloproteinase with thrombospondin motifs 11; a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2); aggrecanase-2

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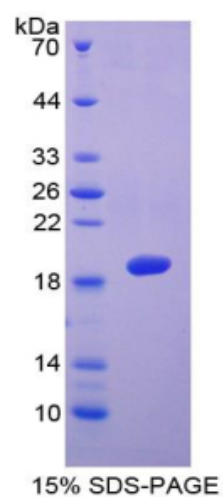
Gene ID 11096

mRNA Refseq NM_007038.4

Protein Refseq NP_008969.2

UniProt ID Q9UNA0

SDS-PAGE



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