
ADAM-TS7 Peptide

Subcategory: Synthetic Peptide, Blocking Peptide

Cat. No.: 300111

Unit: 0.1 mg

Description:

A disintegrin and metalloproteinase with thrombospondin motifs 7 (ADAM-TS7) is a metalloprotease that degrades COMP. ADAM-TS7 is up-regulated in articular cartilage and synovium from arthritis patients. The spacer domain and the thrombospondin type-1 domain are important for a tight interaction with the extracellular matrix. The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.

Format: Each vial contains 0.1 ml peptide in deionized water for a final concentration of 1 mg/ml. Use at 5.6 ug/ml for a 100X excess over antibody for maximum blocking effect.

Alternate Names: A disintegrin and metalloproteinase with thrombospondin motifs 7; ADAMTS-7; ADAM-TS 7; ADAM-TS7; COMPase; ADAMTS7

Accession No.: Q9UKP4

MW: 1319.5g/mol

Sequence: The synthetic peptide used to raise the antibody Cat. No. 250456 is selected from a sequence within the N-term region of human ADAM-TS7. For blocking experiments, a 10 to 100 fold molar excess to antibody is recommended.

Composition: C53H94N26O14

Purity: Purity > 80% by HPLC

Solubility: Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

Storage: Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.