

## ADAMTS4 Protein, Human, Recombinant (GST)

### General Information

Synonyms:	Aggrecanase-1;ADAM-TS 4;ADAMTS-4;KIAA0688;ADAMTS4;ADAM-TS4;A disintegrin and metalloproteinase with thrombospondin motifs 4;ADMP-1
Protein Construction:	213-319 aa
Species:	Human
Expression Host:	E. coli
Accession:	O75173
Molecular Weight:	39.0 kDa (predicted)
AA Sequence:	FASLSRFVETLVVADDKMAAFHGAGLKRYLLVMAAAAKAFKHPSIRNPVSLVVTRLVILGSGEEGPQVGPSA AQTLRSFCAWQRGLNTPEDSDPDHFDTAILFTRQ

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

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

Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. Could also be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease. Cleaves aggrecan at the '392-Glu-|-Ala-393' site.

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