

# Rat ADAM9 Protein

Cat. No. ADM-RM119

## Description

<b>Source</b>	Recombinant Rat ADAM9 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ala206-Asp697.
<b>Accession</b>	Q58GH6
<b>Molecular Weight</b>	The protein has a predicted MW of 75.11 kDa. Due to glycosylation, the protein migrates to 65-95 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

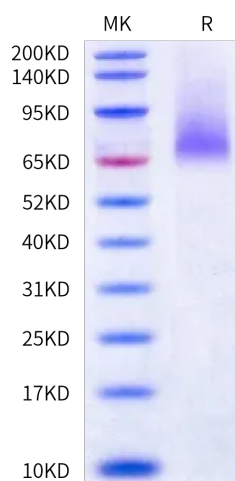
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in 50mM Tris, 500mM NaCl, 0.005% Brij-35, 20% glycerol (pH 8.5).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

A disintegrin and metalloproteinase 9 (ADAM9) is a member of the transmembrane ADAM family. It is expressed in different types of solid cancer and promotes tumor invasiveness. ADAM9 may be a prognostic marker for vestibular schwannomas (VS), and ADAM9 inhibition might have the potential as a systemic approach for the treatment of VS.

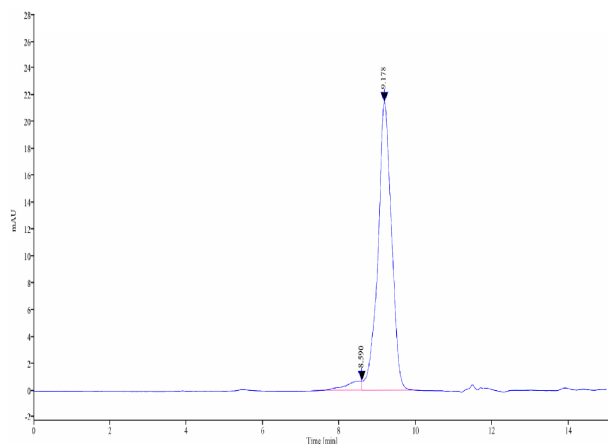
## Assay Data

### Bis-Tris PAGE



Rat ADAM9 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Rat ADAM9 is greater than 90% as determined by SEC-HPLC.

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### Assay Data

#### Bioactivity Data

Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLAQAV-Dpa-RSSSR-NH<sub>2</sub>. The specific activity is > 2.0 pmol/min/ug.