# Data Sheet (Cat.No.TMPY-03877)

TargetMol

## ADAM8/CD156a Protein, Rhesus, Recombinant (His)

### General Information

Synonyms: ADAM metallopeptidase domain 8

Protein Construction: A DNA sequence encoding the rhesus ADAM8 (XP_002805919.1) (Met1-Pro497) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Arg 21

Species: Rhesus

Expression Host: HEK293 Cells

Accession: XP_002805919.1

Molecular Weight: 53.6 kDa (predicted)

### QC Testing

Biological Activity: Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLAQAV-Dpa-RSSSR-NH2. The specific activity is > 0.5 pmols/min/μg.

Purity: > 85 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Supplied as sterile 12. 5 mM Tris, 5 mM CaCl2, 75 mM NaCl, 50% glycerol.

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

### Protein Background

ADAM8, also known as CD156, is a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. ADAM8 is possibly involved in extravasation of leukocytes As a metalloprotease, ADAM8 also may be involved in cell adhesion during neurodegeneration, and it is thought to be a target for allergic respiratory diseases, including asthma.

Reference

Yoshiyama K.,et al.,(1997), CD156 (human ADAM8): expression, primary amino acid sequence, and gene location. Genomics 41:56-62.

Ota T.,et al., (2004), Complete sequencing and characterization of 21,243 full-length human cDNAs.Nat. Genet. 36: 40-45.

Deloukas P.,et al.,(2004), The DNA sequence and comparative analysis of human chromosome 10.Nature 429:375-381.

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