

**Synonym**

ADAM17,TACE,CD156b

**Source**

Mouse ADAM17, His Tag (AD7-M52H1) is expressed from human 293 cells (HEK293). It contains AA Pro 18 - Asp 563 (Accession # [Q9Z0F8](#)).

Predicted N-terminus: Pro 18, Asp 59 and Arg 215

**Molecular Characterization**

ADAM17(Pro 18 - Asp 563)  
Q9Z0F8 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 63.4 kDa. The protein migrates as 19 kDa and 20 kDa (Propeptide), 55-66 kDa (Mature-ADAM17) and 75-94 kDa (Pro-ADAM17) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM MES, 150 mM NaCl, pH6.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

**Storage**

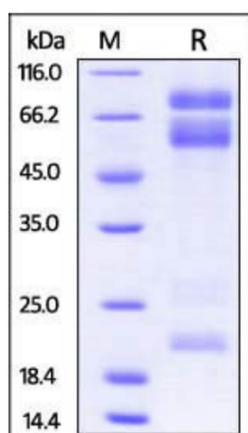
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**



Mouse ADAM17, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

**Background**

Disintegrin and metalloproteinase domain-containing protein 17 (ADAM17), a member of the ADAM protein family of disintegrins and metalloproteases, is also known as TNF-alpha convertase, TNF-alpha-converting enzyme and CD156b, which contains one disintegrin domain and one peptidase M12B domain. ADAM17 can cleave the membrane-bound precursor of TNF-alpha to its mature soluble form. ADAM17 is also responsible for the proteolytical release of soluble JAM3 from endothelial cells surface (By similarity) and proteolytic release of several other cell-surface proteins, including p75 TNF-receptor, interleukin 1 receptor type II, p55

TNF-receptor, transforming growth factor-alpha, L-selectin, growth hormone receptor, MUC1 and the amyloid precursor protein. Furthermore, ADAM17 acts as an activator of Notch pathway by mediating cleavage of Notch, generating the membrane-associated intermediate fragment called Notch extracellular truncation.

**References**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.