



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Recombinant Human A Disintegrin and Metalloproteinase Domain 10

**Catalog No.**  
228-10025

**Source:**  
*Escherichia coli*

### ***Synonyms:***

Kuz, AD10, MADM, CD156c, HsT18717, ADAM metalloproteinase domain 10, A disintegrin and metalloproteinase domain 10, Mammalian disintegrin-metalloprotease, Kuzbanian protein homolog, CDw156, ADAM 10, ADAM10.

### ***Introduction:***

ADAM10 is part of the ADAM family which are cell surface proteins with a distinctive structure possessing both potential adhesion and protease domains. ADAM10 cleaves many proteins including TNF-alpha and E-cadherin. ADAM10 cleaves the membrane-bound precursor of tnf-alpha at 76- ala-l-val-77 to its mature soluble form. ADAM10 is in charge for the proteolytic release of several other cell-surface proteins, including heparin-binding epidermal growth-like factor, ephrin-a2 and for constitutive and regulated alpha-secretase cleavage of amyloid precursor protein ADAM10 is involved in the normal cleavage of the cellular prion protein. ADAM10 is involved in the cleavage of the adhesion molecule 11 at the cell surface and in the release of membrane vesicles, suggesting a vesicle-based protease activity. ADAM10 controls the proteolytic processing of notch and mediates lateral inhibition during neurogenesis.

### ***Description:***

ADAM10 extracellular domain minus the signal peptide and pro-sequence Human Recombinant fused to N-terminal His-Tag produced in E. coli is a single, non-glycosylated polypeptide chain containing 459 amino acids (214-672) and having a molecular mass of 55.089kDa.

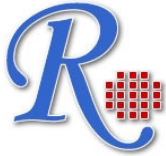
### ***Physical Appearance:***

Sterile Filtered colorless solution.

### ***Formulation:***

The ADAM10 solution contains 20mM Tris (pH 8), 1mM EDTA and 50% Glycerol.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***Stability:***

Store at 4°C if entire vial will be used within 2-4 weeks.

Store frozen at -20°C for longer periods of time.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Avoid multiple freeze-thaw cycles.**

### ***Purity:***

Greater than 95.0% as determined by SDS-PAGE.

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