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## Product Data Sheet

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Product Name: ADAM10 Human  
 Cat. No.: GP22675  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Kuz; AD10; MADM; CD156c; HsT18717; ADAM metallopeptidase domain 10; A disintegrin and metalloproteinase domain 10; Mammalian disintegrin-metalloprotease; Kuzbanian protein homolog; CDw156; ADAM 10; ADAM10.		
Formulation	The ADAM10 solution contains 20mM Tris (pH 8), 1mM EDTA and 50% Glycerol.		

### 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-|-val-77 to its mature soluble form. ADAM10 is in charge for the proteolytic release of several other cell-surface proteins, including 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 I1 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.

### 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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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