

## Active Recombinant Human ADAM10, His-tagged

**Cat. No.** ADAM10-18H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ADAM10(Thr214-Glu672), fused with a C-terminal 10-His tag, was expressed in Sf 21(baculovirus).
<b>Species</b>	Human
<b>Source</b>	Sf21 Cells
<b>ProteinLength</b>	214-672 a.a.
<b>Description</b>	Members of the ADAM family are cell surface proteins with a unique structure possessing both potential adhesion and protease domains. This gene encodes and ADAM family member that cleaves many proteins including TNF-alpha and E-cadherin.
<b>Predicted N Terminal</b>	Thr214
<b>Form</b>	Recombinant Human ADAM10 is prone to proteolytic cleavage at C-terminus. The predominant form of the purified protein lacks the His tag. Supplied as a 0.2 µ filtered solution in MES, NaCl, ZnCl <sub>2</sub> , Glycerol and Brij-35.
<b>Bio-activity</b>	Measured by its ability to cleave a fluorogenic peptide substrate Mca-KPLGL-Dpa-AR-NH <sub>2</sub> .
<b>Molecular Mass</b>	Predicted Molecular Mass:52 kDaSDS-PAGE:60 kDa, reducing conditions

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<b>Endotoxin</b>	< 1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Storage</b>	Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 °C as supplied. 3 months, -70 °C under sterile conditions after opening.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ADAM10 ADAM metalloproteinase domain 10 [ Homo sapiens ]</a>
<b>Official Symbol</b>	ADAM10
<b>Synonyms</b>	ADAM10; ADAM metalloproteinase domain 10; a disintegrin and metalloproteinase domain 10; disintegrin and metalloproteinase domain-containing protein 10; CD156c; HsT18717; kuz; MADM
<b>Gene ID</b>	<a href="#">102</a>
<b>mRNA Refseq</b>	<a href="#">NM_001110</a>
<b>Protein Refseq</b>	<a href="#">NP_001101</a>
<b>MIM</b>	<a href="#">602192</a>
<b>UniProt ID</b>	O14672
<b>Chromosome Location</b>	15q22
<b>Pathway</b>	Activated NOTCH1 Transmits Signal to the Nucleus; Collagen degradation;

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Constitutive Signaling by NOTCH1 PEST Domain Mutants

**Function**

SH3 domain binding; endopeptidase activity; metalloendopeptidase activity

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