Active Recombinant Human ADAM10, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human ADAM10(Thr214-Glu672), fused with a C-terminal 10-His tag, was expressed in Sf 21(baculovirus).
Species	Human
Source	Sf21 Cells
ProteinLength	214-672 a.a.
Description	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.
Predicted N Terminal	Thr214
Form	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 μm filtered solution in MES, NaCl, ZnCl2,Glycerol and Brij-35.
Bio-activity	Measured by its ability to cleave a fluorogenic peptide substrate Mca-KPLGL-Dpa-AR-NH2.
Molecular Mass	Predicted Molecular Mass:52 kDaSDS-PAGE:60 kDa, reducing conditions

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Endotoxin	< 1.0 EU per 1 μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	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

Gene Name	ADAM10 ADAM metallopeptidase domain 10 [Homo sapiens]
Official Symbol	ADAM10
Synonyms	ADAM10; ADAM metallopeptidase domain 10; a disintegrin and metalloproteinase domain 10; disintegrin and metalloproteinase domain-containing protein 10; CD156c; HsT18717; kuz; MADM
Gene ID	102
mRNA Refseq	NM_001110
Protein Refseq	NP_001101
MIM	602192
UniProt ID	O14672
Chromosome Location	15q22
Pathway	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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