

Recombinant Cattle PLAU Protein, His-tagged

Cat. No. PLAU-391C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle PLAU Protein (Ser21-Phe179) with N-His tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Ser21-Phe179
Description	This gene encodes a secreted serine protease that converts plasminogen to plasmin. The encoded preproprotein is proteolytically processed to generate A and B polypeptide chains. These chains associate via a single disulfide bond to form the catalytically inactive high molecular weight urokinase-type plasminogen activator (HMW-uPA). HMW-uPA can be further processed into the catalytically active low molecular weight urokinase-type plasminogen activator (LMW-uPA). This low molecular weight form does not bind to the urokinase-type plasminogen activator receptor. Mutations in this gene may be associated with Quebec platelet disorder and late-onset Alzheimer's disease. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 21.7 kDa Accurate Molecular Mass: 22 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PLAU plasminogen activator, urokinase [Bos taurus (cattle)]
Official Symbol	PLAU
Synonyms	PLAU; plasminogen activator, urokinase; urokinase-type plasminogen activator; U-plasminogen activator; uPA; urokinase plasminogen activator preproprotein; EC 3.4.21.73
Gene ID	281408
mRNA Refseq	NM_174147

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Protein Refseq	NP_776572
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UniProt ID	Q05589
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