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Datasheet for ABIN7520393 PLAU Protein (His tag)

Overview

Quantity:	20 µg
Target:	PLAU
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PLAU protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human uPA/PLAU Protein
Sequence:	MRALLARLLL CVLVVSDSKG SNELHQVPSN CDCLNGGTCV SNKYFSNIHW CNCPKKFGGQ HCEIDKSKTC YEGNGHFYRG KASTDTMGRP CLPWNSATVL QQTYHAHRSD ALQLGLGKHN YCRNPDNRRR PWCYVQVGLK PLVQECMVHD CADGKKPSSP PEELKFQCGQ KTLRPRFKII GGEFTTIENQ PWFAAIYRRH RGGSVTYVCG GSLISPCWVI SATHCFIDYP KKEDYIVYLG RSRLNSNTQG EMKFEVENLI LHKDYSADTL AHHNDIALLK IRSKEGRCAQ PSRTIQTICL PSMYNDPQFG TSCEITGFGK ENSTDYLYPE QLKMTVVKLI SHRECQPHY YGSEVTTKML CAADPQWKTD SCQGDSSGGL VCSLQGRMTL TGIVSWGRGC ALKDKPGVYT RVSHFLPWIR SHTKEENGLA L
Specificity:	Met1-Leu431
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	< 0.1 EU/μg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human uPAR Protein at 1 μg/mL (100 μL/well) can bind PLAU with a linear range of 0.031-1.014 ng/mL.

Target Details

Target:	PLAU
Alternative Name:	uPA/PLAU (PLAU Products)
Background:	<p>Description: Plasminogen activator, urokinase, also known as PLAU and uPA, is a serine protease which converts plasminogen to plasmin, a broad-spectrum protease active on extracellular matrix (ECM) components. It is involved in complement activation, cell migration, wound healing, and generation of localized extracellular proteolysis during tissue remodelling, pro-hormone conversion, carcinogenesis and neoplasia. uPA and its receptor (uPAR) have been implicated in a broad spectrum of pathophysiological processes, including fibrinolysis, proteolysis, inflammation, atherogenesis and plaque destabilization, all of which are involved in the pathogenesis of MI (myocardial infarction). The role of uPA is not only does it as a kind of enzyme, but also is breast cancer, stomach cancer, colon cancer, bladder cancer, ovarian cancer, brain, and endometrial cancer markers for a strong invasion and metastasis. Because of the causal involvement of uPA in cancer invasion and metastasis, the blockade of uPA interactions and activity with specific inhibitors is of interest for novel strategies in cancer therapy.</p> <p>Name: PLAU,ATF,BDPLT5,QPD,UPA,URK,u-PA,urokinase</p>
Gene ID:	5328
UniProt:	P00749
Pathways:	Cellular Response to Molecule of Bacterial Origin , Carbohydrate Homeostasis , Autophagy , Smooth Muscle Cell Migration

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Concentration:	1.077 mg/mL

Handling

Buffer:	Supplied as a 0.22 µm filtered solution in 20 mM HEPES, 150 mM NaCl, 2 mM CaCl, 10 % Glycerol, pH 7.5
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Storage:	-80 °C
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Storage Comment:	<p>This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt.</p> <p>For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.</p>
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