Datasheet for ABIN3094666

PLG Protein (AA 20-810) (His tag)

Go to Product page

1 Image

Overview

Quantity:	1 mg
Target:	PLG
Protein Characteristics:	AA 20-810
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLG protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	EPLDDYVNTQ GASLFSVTKK QLGAGSIEEC AAKCEEDEEF TCRAFQYHSK EQQCVIMAEN RKSSIIIRMR DVVLFEKKVY LSECKTGNGK NYRGTMSKTK NGITCQKWSS TSPHRPRFSP ATHPSEGLEE NYCRNPDNDP QGPWCYTTDP EKRYDYCDIL ECEEECMHCS GENYDGKISK TMSGLECQAW DSQSPHAHGY IPSKFPNKNL KKNYCRNPDR ELRPWCFTTD PNKRWELCDI PRCTTPPPSS GPTYQCLKGT GENYRGNVAV TVSGHTCQHW SAQTPHTHNR TPENFPCKNL DENYCRNPDG KRAPWCHTTN SQVRWEYCKI PSCDSSPVST EQLAPTAPPE LTPVVQDCYH GDGQSYRGTS STTTTGKKCQ SWSSMTPHRH QKTPENYPNA GLTMNYCRNP DADKGPWCFT TDPSVRWEYC NLKKCSGTEA SVVAPPPVVL LPDVETPSEE DCMFGNGKGY RGKRATTVTG TPCQDWAAQE PHRHSIFTPE TNPRAGLEKN YCRNPDGDVG GPWCYTTNPR KLYDYCDVPQ CAAPSFDCGK PQVEPKKCPG RVVGGCVAHP HSWPWQVSLR TRFGMHFCGG TLISPEWVLT AAHCLEKSPR PSSYKVILGA HQEVNLEPHV QEIEVSRLFL EPTRKDIALL KLSSPAVITD KVIPACLPSP NYVVADRTEC FITGWGETQG TFGAGLLKEA QLPVIENKVC NRYEFLNGRV

	QSTELCAGHL AGGTDSCQGD SGGPLVCFEK DKYILQGVTS WGLGCARPNK PGVYVRVSRF VTWIEGVMRN N **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human PLG Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

Product Details

Grade:	Crystallography grade

Target Details

Target:	PLG
Alternative Name:	PLG (PLG Products)
Background:	Plasmin dissolves the fibrin of blood clots and acts as a proteolytic factor in a variety of other processes including embryonic development, tissue remodeling, tumor invasion, and inflammation. In ovulation, weakens the walls of the Graafian follicle. It activates the urokinase-type plasminogen activator, collagenases and several complement zymogens, such as C1 and C5. Cleavage of fibronectin and laminin leads to cell detachment and apoptosis. Also cleaves fibrin, thrombospondin and von Willebrand factor. Its role in tissue remodeling and tumor invasion may be modulated by CSPG4. Binds to cells. {ECO:0000269|PubMed:14699093}., Angiostatin is an angiogenesis inhibitor that blocks neovascularization and growth of experimental primary and metastatic tumors in vivo. {ECO:0000269|PubMed:14699093}.
Molecular Weight:	89.4 kDa Including tag.
UniProt:	P00747
Pathways:	Complement System, Lipid Metabolism

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process