

Recombinant Human PLG protein, GST-tagged

Cat. No. PLG-9029H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLG(1 a.a. - 810 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-810 a.a.
Description	The protein encoded by this gene is a secreted blood zymogen that is activated by proteolysis and converted to plasmin and angiostatin. Plasmin dissolves fibrin in blood clots and is an important protease in many other cellular processes while angiostatin inhibits angiogenesis. Defects in this gene are likely a cause of thrombophilia and ligneous conjunctivitis. Two transcript variants encoding different isoforms have been found for this gene.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	117 kDa
AA Sequence	MEHKEVLLLLLLFLKSGQGGEPLDDYVNTQGASLFSVTKKQLGAGSIEECAAKCEEDE EFTCRAFQYHSKEQQCVIMAENRKSSIIIRMRDVVLFEKKVYLSECKTGNGKNYRG MSKTKNGITCQKWSSTSPHRPRFSPATHPSEGLEENYCRNPDNDPQGPWCYTDP EKRYDYCDILECEEECMHCSGENYDGKISKTMGLECQAWDSQSPHAHGYIPSKFP NKNLKKNYCRNPDRRLRPWCFTTDPNKRWELCDIPRCTTPPPSSGPTYQCLKGTG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ENYRGNVAVTVSGHTCQHWSAQTPHTHNRTPENFPCKNLDENYCRNPDGKRAPW
 CHTTNSQVRWEYCKIPSCDSSPVSTEQLAPTAPPELTPVVQDCYHGDGQSYRGTS
 STTTTGKKCQSWSSMTPHRHQKTPENYPNAGLTMNYCRNPDADKGPWCFTTDP
 VRWEYCNLKKCSGTEASVAPPVLLPDVETPSEEDCMFGNGKGYRGKRATTVT
 GTPCQDWAAQEPHRHSIFTPETNPRAGLEKNYCRNPDGDVGGPWCYTTNPRKLYD
 YCDVPQCAAPSFDCGKPQVEPKKCPGRVVGGCVAHPHSWPWQVSLRTRFGMHF
 CGGTLSPEWVLTAAHCLEKSPRPSSYKVILGAHQEVNLEPHVQEIEVSRLFLEPTRK
 DIALLKLSSPAVITDKVIPACLPSPNYVVADRTECFITGWGETQGTGAGLLKEAQLP
 VIENKVCNRYEFLNGRVQSTELCAGHLAGGTDSCQGDSSGGLVCFEKDKYILQGV
 SWGLGCARPKNKPGVYVRVSRFVTWIEGVMRNN

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name [PLG plasminogen \[Homo sapiens \]](#)

Official Symbol [PLG](#)

Synonyms PLG; plasminogen; plasmin; DKFZp779M0222;

Gene ID [5340](#)

mRNA Refseq [NM_000301](#)

Protein Refseq [NP_000292](#)

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MIM	173350
UniProt ID	P00747
Chromosome Location	6q26
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Degradation of the extracellular matrix, organism-specific biosystem;
Function	apolipoprotein binding; cell surface binding; peptidase activity; protein binding; protein domain specific binding; serine-type endopeptidase activity;
	