

Active Recombinant Mouse Plat protein, His-tagged

Cat. No. Plat-2739M Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Active Recombinant Mouse Plat protein(P11214)(359~532 aa), fused with N-terminal His tag, was expressed in E.coli. |
| Species | Mouse |
| Source | E.coli |
| ProteinLength | 359-532 aa |
| Form | Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. |
| Bio-activity | <p>Plasminogen activators are serine proteases that catalyze the activation of plasmin via proteolytic cleavage of its zymogen form plasminogen. Plasmin is an important factor in fibrinolysis, the breakdown of fibrin polymers formed during blood clotting. There are two main plasminogen activators: urokinase (uPA) and tissue plasminogen activator (tPA). Tissue plasminogen activators (tPA) are used to treat medical conditions related to blood clotting including embolic or thrombotic stroke, myocardial infarction, and pulmonary embolism. Besides, Plasminogen Activator Inhibitor 1 (PAI1) has been identified as an interactor of tPA, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse tPA and recombinant mouse PAI1. Briefly, tPA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to PAI1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with</p> |

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

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

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anti-tPA pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of tPA and PAI1 was shown, and this effect was in a dose dependent manner.

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| Molecular Mass | 20.7kDa |
| Endotoxin | <1.0EU per 1µg (determined by the LAL method). |
| Purity | > 95% as determined by SDS-PAGE. |
| Storage | Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| Reconstitution | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

GENE INFORMATION

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| Gene Name | Plat plasminogen activator, tissue [<i>Mus musculus</i>] |
| Official Symbol | Plat |
| Synonyms | PLAT; plasminogen activator, tissue; tissue-type plasminogen activator; t-plasminogen activator; tPA; AU020998; AW212668; D8Ert2e; MGC18508; |
| Gene ID | 18791 |
| mRNA Refseq | NM_008872 |

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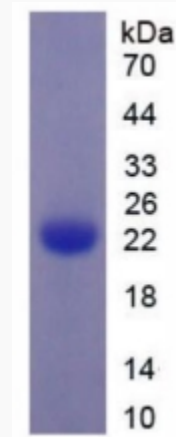
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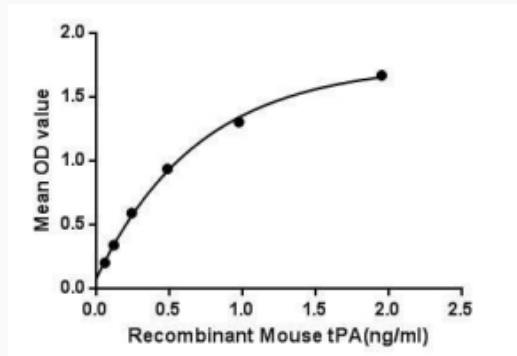
Protein Refseq

NP_032898

SDS-PAGE



Activity



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