Active Recombinant Rat Plaur protein, His-tagged

Cat. No. Plaur-587R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Plaur protein(P49616)(17~212 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	17-212 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Plasminogen Activator, Urokinase Receptor (uPAR) is the receptor for urokinase plasminogen activator and, given its role in localizing and promoting plasmin formation, likely influences many normal and pathological processes related to cell-surface plasminogen activation and localized degradation of the extracellular matrix. The urokinase receptor (uPAR) was identified as the membrane receptor of the serine protease urokinase (uPA), thereby implicated in the plasminogen activation cascade and regulation of pericellular proteolysis, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat uPAR and recombinant human uPA. Briefly, biotin-linked uPAR were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to uPA-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the

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	addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read at 450 nm immediately. The binding activity of uPAR and uPA was shown, the EC50 for this effect is 0.223 ug/mL.
Molecular Mass	23.2kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% 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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Plaur plasminogen activator, urokinase receptor [Rattus norvegicus]
Official Symbol	Plaur
Synonyms	PLAUR; plasminogen activator, urokinase receptor; urokinase plasminogen activator surface receptor; U-PAR; urinary plasminogen activator receptor 2; urinary plasminogen activator receptor 3; urokinase plasminogen activator receptor; plasminogen activator urokinase receptor 3; Par; uPAR; Plaur3; uPAR-2; uPAR-3;
Gene ID	50692
mRNA Refseq	NM_017350

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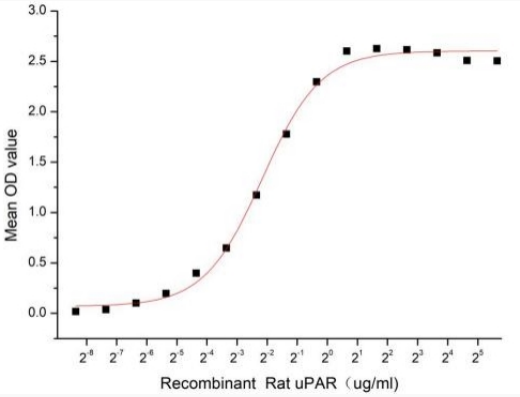
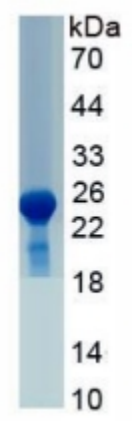
Protein Refseq	NP_059046
Activity	
SDS-PAGE	

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