

Recombinant Rat SERPINF2 Protein, His-tagged

Cat. No. SERPINF2-533R Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Rat SERPINF2 (NP_001011892.1) (Met1-Lys491) was expressed with a polyhistidine tag at the C-terminus.

Species Rat

Source HEK293

ProteinLength Met1-Lys491

Description

SerpinF2, also known as alpha-2 antiplasmin (alpha-2 AP), is a member of the Serpin superfamily. SerpinF2 is the principal physiological inhibitor of serine protease plasmin, and as well as, an efficient inhibitor of trypsin and chymotrypsin. This protease is produced mainly by liver and kidney, and also expressed in muscle, intestine, central nervous system, and placenta also express this protein at a moderate level. It is indicated that Serpin F2 is a key regulator of plasmin-mediated proteolysis in these tissues. Alpha-2 AP is an unusual serpin in that it contains extensive N- and C-terminal sequences flanking the serpin domain. The N-terminal sequence is crosslinked to fibrin by factor XIIIa, whereas the C-terminal region mediates the initial interaction with plasmin. SerpinF2 is one of the inhibitors of fibrinolysis, which acts as the primary inhibitor of plasmin(ogen). It is a specific plasmin inhibitor, and is important in modulating the effectiveness and persistence of fibrin with respect to its susceptibility to digestion and removal by plasmin. Alpha-2 AP plays the dominant role in inhibiting both plasma clot lysis and thrombus lysis, and accordingly, the congenital deficiency of Alpha-2 antiplasmin causes a rare bleeding

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disorder because of increased fibrinolysis. Thus, it may be a useful target for developing more effective treatment of thrombotic diseases.

Predicted N Terminal Met 280

Form Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Mass The recombinant rat SERPINF2 consists of 475 amino acids and predicts a molecular mass of 53.6 kDa.

Endotoxin < 1.0 EU per µg protein as determined by the LAL method.

Purity > 95 % as determined by SDS-PAGE.

Storage Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name [Serpinf2 serpin peptidase inhibitor, clade F \(alpha-2 antiplasmin, pigment epithelium derived factor\), member 2 \[Rattus norvegicus \]](#)

Official Symbol [SERPINF2](#)

Synonyms SERPINF2; serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 2; alpha-2-antiplasmin; serine (or cysteine)

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peptidase inhibitor, clade F, member 2; serine (or cysteine) proteinase inhibitor, clade F, member 2;

Gene ID

[287527](#)

mRNA Refseq

[NM_001011892](#)

Protein Refseq

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