

RP03556

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Recombinant Human SerpinB2 Protein

Catalog No.: RP03556 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus- Insect Cells	5055	P05120

Tags

N-GST

Synonyms

SERPINB2; PAI2; PLANH2; Plasminogen activator inhibitor 2; PAI-2; Serpin B2; Urokinase inhibitor

Product Information

Source	Purification
	≥ 90 % as determined by SDS-PAGE

Endotoxin

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

Formulation

Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0, 0.5mM Reduced Glutathione, 10% glycerol, 0.5mM PMSF. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Reconstitution

Contact



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Background

Serpins are the largest and most diverse family of serine protease inhibitors which are involved in some fundamental biological processes such as blood coagulation, complement activation, fibrinolysis, angiogenesis, inflammation and tumor suppression and are expressed in a cell-specific manner. SerpinB2, also known as Plasminogen activator inhibitor 2, Placental plasminogen activator inhibitor, Monocyte Arg-serpin, Urokinase inhibitor and PAI2, is a cytoplasm protein that belongs to the serpin family and Ov-serpin subfamily. SerpinB2 is a major product of activated monocytes and macrophages and is substantially induced during most inflammatory processes. Distinct from its widely described extracellular role as an inhibitor of urokinase plasminogen activator. SerpinB2 has been shown to have an intracellular role as a retinoblastoma protein (Rb)-binding protein that inhibits Rb degradation. SerpinB2 is widely described as an inhibitor of urokinase plasminogen activator. SerpinB2 inhibits urokinase-type plasminogen activator. The monocyte derived SerpinB2 is distinct from the endothelial cell-derived PAI-1. SerpinB2 is a potentially important inducible host factor that significantly promotes HIV-1 replication.

Basic Information

Description

Recombinant Human SerpinB2 Protein is produced by Baculovirus-Insect Cells system. The target protein is expressed with sequence (Met 1-Pro 415) of Human SerpinB2 (Accession #NP_002566.1) fused with the GST tag at the N-terminus.

Bio-Activity

Immobilized human GST-SerpinB2 at 10 µg/ml (100 µl/well) can bind biotinylated human uPA-His, The EC50 of biotinylated human uPA-His is 10.24-23.88 ng/ml.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

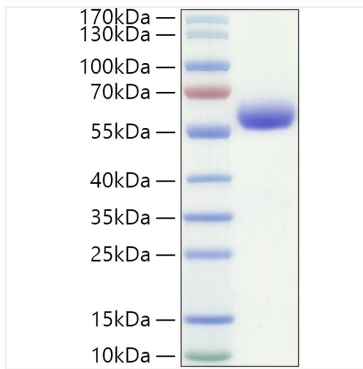
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

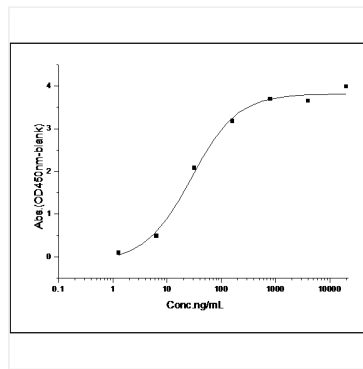
Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Recombinant Human SerpinB2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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