

# Human SERPINB3 / SCCA-1 (His Tag) recombinant protein



Catalog Number: 500997

## General Information

### Gene Name Synonym

Protein T4-A; Squamous cell carcinoma antigen 1

### Protein Construction

A DNA sequence encoding the human SERPINB3 (AAB20405.1) (Asn 2-Pro 390) was expressed, with a polyhistidine tag at the N-terminus.

### Organism

Human

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC, R&D Systems, Catalog # ES008.

The IC<sub>50</sub> is < 5 nM.

### Purity

> 97 % as determined by SDS-PAGE

### Endotoxin

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

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met

## Molecular Mass

The recombinant human SERPINB3 consists of 408 amino acids and predicts a molecular mass of 46.7 kDa. It migrates as an approximately 43 kDa band in SDS-PAGE under reducing conditions.

## Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 20% gly, 3mM DTT

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

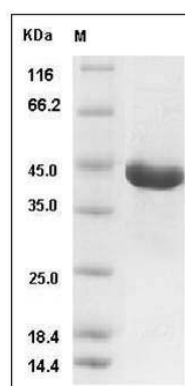
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human SerpinB3 / SCCA-1 Protein (His Tag) SDS-PAGE