

Recombinant Human Serpin B3/SCCA-1 (C-Avi&His) Catalog No: BP089

Description Recombinant Human Serpin B3 is produced by E.coli. The target gene encoding M1-P390 is

expressed with a Avi&6His tag at the C terminus.

Expression System E. coli

Alternative name Serpin B3; Protein T4-A; Squamous cell carcinoma antigen 1; SCCA-1; serine (or cysteine) proteinase

inhibitor, clade B (ovalbumin), member 3; serpin peptidase inhibitor, clade B(ovalbumin), member 3;

Squamous cell carcinoma antigen 1; T4-A; SCCA1

Accession No. P29508

Predicted

Molecular Weight

Apparent

Molecular Weight

SCCA-1 protein appeared at 47kDa in a reducing SDS-PAGE gel

Quality Control Purity: greater than 95% as determined by reducing SDS-PAGE.

Endotoxin: less than 0.1 ng/µg (1 EU/µg) as determined by TAL test.

Formulation 20mM Na2HPO4, 20mM NaH2PO4, pH 7.4

48.1kDa

Reconstitution It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. **Storage**

Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples

are stable at < -20°C for 3 months.

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Background Serpin B3, also known as squamous cell carcinoma antigen-1 (SCCA-1), is a member of the serpin

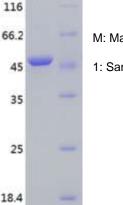
> superfamily of serine protease inhibitors. Serpins are known to inhibit serine proteases and some can inhibit caspases and papain-like cysteine proteases. Serpin B3 is also a member of the subgroup ovalbumin-related serpins which takes part in the regulation of apoptosis, inflammation, angiogenesis and embryogenesis. Serpin B3 is also a tumor marker for squamous cell carcinomas in diverse areas including the cervix, head, neck and lung. Different from typical serpins, serpin B3 inhibits papain-like lysosomal cysteine proteases Cathepsin K, L, and S, while lacking inhibitory activity against serine

proteases

KDa 1

14.4

SDS-PAGE



M: Marker

1: Sample in reducing conditions

