

## Recombinant Human SERPINB3, His-tagged

**Cat. No.** SERPINB3-65H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b> | Recombinant Human Squamous Cell Carcinoma Antigen 1, fused with C terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Squamous cell carcinoma antigen (SCCA), a member of the serine protease inhibitor (serpin) family, is a subfraction of the tumor associated antigen TA-4, is a glycoprotein, with a molecular weight between 42 to 48 kDa. Total SCCA in the circulation comprises 2 nearly identical, approximately 45 kDa proteins, SCCA1 and SCCA2. Both proteins are members of the high-molecular weight serine proteinase inhibitor (serpin) family with SCCA1 paradoxically inhibiting lysosomal cysteine proteinases and SCCA2 inhibiting chymotrypsin-like serine proteinases. Although SCCA1 and SCCA2 are detected in the cytoplasm of normal squamous epithelial cells, neither serpin is detected normally in the serum. |
| <b>Form</b>             | The protein solution is in 0.05M phosphate buffer containing 0.15M NaCl and 0.09% NaN <sub>3</sub> pH 7.5. Filtered through a 0.4µm membrane.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 24.1kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Endotoxin</b>        | < 1.0 eu per µg of the protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>        | Western blotting, ELISA                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>             | Store it under sterile conditions at -20°C to -114°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>           | SERPINB3 serpin peptidase inhibitor, clade B (ovalbumin), member 3 [ Homo sapiens ]                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b>     | SERPINB3                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>            | SERPINB3; serpin peptidase inhibitor, clade B (ovalbumin), member 3; SCC, SCCA1, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 3; serpin B3; HsT1196; T4 A; protein T4-A; squamous cell carcinoma antigen 1; serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 3; SCC; T4-A; SCCA1; SCCA-1; SCCA-PD; |
| <b>Gene ID</b>             | 6317                                                                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_006919                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>      | NP_008850                                                                                                                                                                                                                                                                                                                                          |
| <b>MIM</b>                 | 600517                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | P29508                                                                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 18q21.3                                                                                                                                                                                                                                                                                                                                            |

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|-----------------|-----------------------------------------------------------------------------|
| <b>Pathway</b>  | Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem;   |
| <b>Function</b> | peptidase inhibitor activity; serine-type endopeptidase inhibitor activity; |

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