

## Stanniocalcin 1/STC-1 Recombinant Protein | STC-1 recombinant protein

Recombinant Human Stanniocalcin 1/STC-1 (C-6His)

CATALOG #  
**AAA177945**

HOST  
**Human Cells**

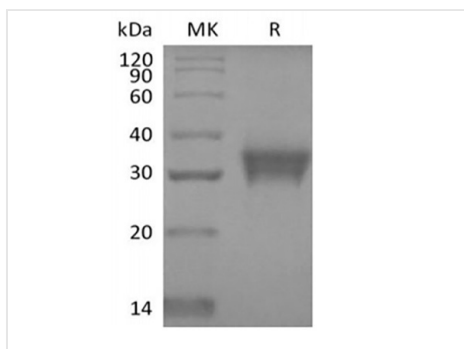
### PRODUCT SYNONYMS

Stanniocalcin 1/STC-1; Recombinant Human Stanniocalcin 1/STC-1 (C-6His); Stanniocalcin 1; stanniocalcin-1; STC1; STC-1; STCSTC-1; STC-1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Human Cells                                                                                                                                                                                                                                               |
| Purity/Purification     | >95% as determined by reducing SDS-PAGE                                                                                                                                                                                                                   |
| Form/Format             | Lyophilized from a 0.2um filtered solution of PBS, pH7.4.                                                                                                                                                                                                 |
| Sequence                | Thr18-Ala2 47                                                                                                                                                                                                                                             |
| Species                 | Human                                                                                                                                                                                                                                                     |
| Tag                     | C-6His                                                                                                                                                                                                                                                    |
| Endotoxin               | <1.0EU per ug as determined by the LAL method.                                                                                                                                                                                                            |
| Reconstitution          | We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis. |
| Preparation and Storage | Lyophilized protein should be stored at < -20°C<br>Reconstituted protein solution can be stored at 4-7°C for 2-7 days<br>Aliquots of reconstituted samples are stable at < -20°C for 3 months                                                             |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for STC-1 recombinant protein | Stanniocalcin 1 (STC-1) is a homodimeric glycoprotein hormone that is involved in calcium and phosphate homeostasis. It was originally identified in bony fishes, where elevation of calcium in serum causes the release of STC from the endocrine glands called the corpuscles of Stannius. STC-1 inhibits the breakdown of PAPP-A, protects cancer cells from apoptosis, reduces tumor size of liver cancers, promotes osteoblast differentiation and inhibits longitudinal bone growth directly at the growth plate. It is also a biomarker of brain and lung cancer progression. STC1 signals through inhibitory G-protein modulates CGRP receptor spatial localization during osteoblastogenesis and may function as a regulatory factor interacting with calcitonin peptide members during bone formation. |
| Product Categories/Family for STC-1 recombinant protein   | Signal Transduction; Cell biology; Cancer; metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| NCBI GI #                        | 4507265                                      |
| NCBI GeneID                      | 6781                                         |
| NCBI Accession #                 | NP_003146.1                                  |
| NCBI GenBank Nucleotide #        | NM_003155.2                                  |
| UniProt Accession #              | P52823; Q71UE5; B4DN22                       |
| Molecular Weight                 | Mol_Mass: 26.9 kDa<br>AP_Mol_Mass: 28-36 kDa |
| NCBI Official Full Name          | stanniocalcin-1                              |
| NCBI Official Synonym Full Names | stanniocalcin 1                              |
| NCBI Official Symbol             | STC1                                         |
| NCBI Official Synonym Symbols    | STC                                          |
| NCBI Protein Information         | stanniocalcin-1                              |
| UniProt Protein Name             | Stanniocalcin-1                              |
| UniProt Gene Name                | STC1                                         |
| UniProt Synonym Gene Names       | STC; STC-1                                   |
| UniProt Entry Name               | STC1_HUMAN                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/stc1-recombinant-protein-human-cells/177945>