

# Recombinant human Stanniocalcin 2/STC-2 protein

Catalog Number: ATGP2142

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

25-302aa

### UniProt No.

O76061

### NCBI Accession No.

NP\_003705

### Alternative Names

Stanniocalcin-2, STC-2, STCRP

## PRODUCT SPECIFICATION

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### Molecular Weight

33 kDa (301aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.25M NaCl, 30% glycerol, 1mM DTT

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

STC2 is a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The protein has 10 of its 15 cysteine residues conserved among stanniocalcin family members and is phosphorylated by casein kinase 2 exclusively on its serine residues. Its C-terminus contains a cluster of histidine residues which may interact with metal ions. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Expression of this gene is induced by estrogen and altered in some breast

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cancers. Recombinant human STC2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

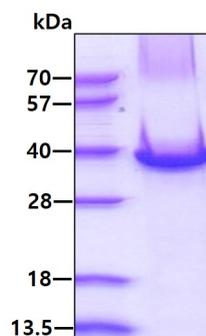
<MGSSHHHHHH SSGLVPRGSH MGS>TDATNPP EGPQDRSSQQ KGRLSLQNTA EIQHCLVNAG DVGCGVFECF  
ENNSCEIRGL HGICMTFLHN AGKFDAQGKS FIKDALKCKA HALRHRFGCI SRKCPAIREM VSQLORECYL KHDLCAAAQE  
NTRVIVEMIH FKDLLLHEPY VDLVNLTLTC GEEVKEAITH SVQVQCEQNW GSLCSILSFC TSAIQKPPTA PPERQPQVDR  
TKLSRAHHGE AGHHLPEPSS RETGRGAKGE RGSKSHRNAH ARGRVGGGLGA QGPSGSSEWE DEQSEYSDIR R

## General References

Esseghir S, Kennedy A, et al. (2007). Clin Cancer Res. 13(11):3164-73.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.