



Recombinant Protein Technical Manual  
Recombinant Human STC2/Stanniocalcin 2 Protein  
(His Tag)  
RPES4367

Product Data:

**Product SKU:** RPES4367

**Size:** 20µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** O76061

Protein Information:

**Molecular Mass:** 32.1 kDa

**AP Molecular Mass:** 35-42 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** STC-2;STCRP

## Immunogen Information:

**Sequence:** Met 1-Arg302

## Background:

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