

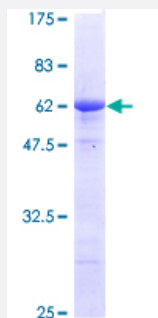
Full-Length

STC2 (Human) Recombinant Protein (P01)

Catalog # H00008614-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human STC2 full-length ORF (AAH00658, 1 a.a. - 302 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MCAERLGQFMTLALVLATFDPARGTDATNPPEGPDQRSSQQKGRSLQNTAEIQHCLVNAGDVG
CGVFECFENNSCEIRGLHGICMTFLHNAGKFDAQGKSFKDALKCKAHLRHRFGCISRKCPAIRE
MVSQQLQRECYLKHDLCAAAQENTRVVEMIHFkdLLHEPYVDLVNLLTCGEEVKEATHSVQVQ
CEQNWGSLCSILSFCTSAIQKPPTAPPERQPQVDRTKLSRAHHGEAGHHLPEPSSRETGRGAKG
ERGSKSHPNAHARGRVGGLGAQGPSGSSEWEDEQSEYSDIRR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

58.96

Interspecies Antigen Sequence

Mouse (86); Rat (84)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — STC2

Entrez GeneID[8614](#)**GeneBank Accession#**[BC000658](#)**Protein Accession#**[AAH00658](#)**Gene Name**

STC2

Gene Alias

STC-2, STCRP

Gene Description

stanniocalcin 2

Omim ID[603665](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The encoded 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. Constitutive overexpression of human stanniocalcin 2 in mice resulted in pre- and postnatal growth restriction, reduced bone and skeletal muscle growth, and organomegaly. Expression of this gene is induced by estrogen and altered in some breast cancers. [provided by RefSeq]

Other Designations

STC-related protein|stanniocalcin-related protein

Disease

- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)