

Recombinant Human STC2, FLAG-tagged

Cat. No. STC2-30114TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature protein, corresponding to amino acids 25-302 of Human Stanniocalcin 2, expressed in HEK cells with a C-TerminalAA ADYKDDDDK-tag.
Species	Human
ProteinLength	25-302 a.a.
Description	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.
Conjugation	FLAG
Tissue specificity	Expressed in a variety of tissues including muscle, heart, pancreas, kidney, spleen, prostate, small intestine, colon and peripheral blood leukocytes.

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Form	Lyophilised: Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20mM Sodium chloride, 20mM Tris, pH 7.5
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	TDATNPPEGP QDRSSQQKGR LSLQNTAEIQ HCLVNAGDVGCGVFECFENN SCEIRGLHGI CMTFLHNAGK FDAQGKSFIKDALKCKAHAL RHRFGCISRK CPAIREMVSQ LQRECYLKHDLCAAAQENTR VIVEMIHFKD LLLHEPYVDL VNLLLTGCEEVKEAITHSVQ VQCEQNWGSL CSILSFCTSA IQKPPTAPPERQPQVDRTKL SRAHHGEAGH HLPEPSSRET GRGAKGERGSKSHPNHARG RVGGLGAQGP SGSSEWEDEQ SEYSDIRR-AA ADYKDDDDK
Sequence Similarities	Belongs to the stanniocalcin family.
Full Length	Full L.

GENE INFORMATION

Gene Name	STC2 stanniocalcin 2 [Homo sapiens]
Official Symbol	STC2
Synonyms	STC2; stanniocalcin 2; stanniocalcin-2; STC 2;
Gene ID	8614

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mRNA Refseq	NM_003714
Protein Refseq	NP_003705
MIM	603665
Uniprot ID	O76061
Chromosome Location	5q35.2
Function	hormone activity;

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