

Recombinant Human STC2, T7 -tagged

Cat. No. STC2-30113TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length human protein fused to a T7 tag at the N-terminus.
Species	Human
Source	E.coli
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	T7
Tissue specificity	Expressed in a variety of tissues including muscle, heart, pancreas, kidney, spleen, prostate, small intestine, colon and peripheral blood leukocytes.
Form	Liquid

 Tel: 1-631-559-9269 1-516-512-3133

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: 0.002% Sodium Azide Constituents: 0.1% Triton-X-100, 10mM Tris, 10mM DTT, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
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
mRNA Refseq	NM_003714
Protein Refseq	NP_003705
MIM	603665
Uniprot ID	O76061
Chromosome Location	5q35.2

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Function

hormone activity;

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