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STC 2 Human

Stanniocalcin-2 Human Recombinant
HRM0108

Product Overview

Name	STC 2 Human
Description	
Stanniocalcin-2 Human Recombinant	
Accession (Primary)	O76061
Synonyms	
Stanniocalcin-2, STC, STC2, STCRP, STC-2, Stanniocalcin-related protein, STC-related protein.	
Introduction	
STC2 is a 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 over expression 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.	
Source	
HEK 293 cell line (Human embryonic kidney).	
Physical Appearance	
White lyophilized (freeze-dried) powder.	
Formulation	
Filtered (0.4 µm) and lyophilized in 0.5mg/ml in 20mM Tris buffer, 20mM NaCl, pH 7.5.	
Stability	
Lyophilized STC-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Stanniocalcin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

TDATNPPEGP QDRSSQQKGR LSLQNTAEIQ HCLVNAGDVG CGVFECFENN SCEIRGLHGI CMTFLHNAGKFDAQGKSFIK DALKCKAHAL RHRFGCISRK CPAIREMVSQ LQRECYLKHD LCAAAQENTR VIVEMIHFKDLLLHEPYVDL VNLLLTCGEE VKEAITHSVQ VQCEQNWGSL CSILSFCTSA IQKPPTAPPE RQPQVDRTKLSRAHHGEAGH HLPEPSSRET GRGAKGERGS KSHPNAHARG RVGGLGAQGP SGSSEWEDEQ SEYSDIRRAAADYKDDDDK.

Solubility

Add deionized water to a working concentration approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by appropriate sterile filter before using it in the cell culture.

Precautions

STC 2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O76061)