

32-2084: STC 2, His Recombinant Protein

Alternative Name : Stanniocalcin-2,STC,STC2,STCRP,STC-2,Stanniocalcin-related protein,STC-related protein.

Description

Source : Escherichia Coli. STC 2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 301 amino acids (25-302 a.a.) and having a molecular mass of 33kDa. STC 2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	STC 2 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.25M NaCl, 30% glycerol and 1mM DTT.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSTDATNPP EGPQDRSSQQ KGRSLQNTA EIQHCLVNAG DVGCGVFECF ENNSCEIRGL HGICMTFLHN AGKFDAQGKS FIKDALKCKA HALRHRFGCI SRKCPAIREM VSQQLQRECYL KHDLCAAAQE NTRVIVEMIH FKDLLLHEPY VDLVNLLLTTC GEEVKEAITH SVQVQCEQNW GSLCSILSFC TSAIQKPPTA PPERQPQVDR TKLSRAHHGE AGHHLPEPSS RETGRGAKGE RGSKSHRNAH ARGRVGGLGA QGPSGSSEWE DEQSEYSDIR R.

