



# Recombinant Human Stanniocalcin-1 (STC1)

<b>Product Code</b>	CSB-MP022821HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P52823
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	VAAQNSA EVVRCLNSAL QVGC GAFACL ENSTC DTDGM YDICKSFLYS AAKFDTQGKA FVKESLKCIA NGVTSKVFLA IRRCS TFQRM IAEVQEECY S KLVNCSI AKR NPEAITEVVQ LPNHFSNRY Y NRLVRS LLEC DEDTVSTIRD SLMEKIGPNM ASLFHILQTD HCAQTHPRAD FNRRRTNEPQ KLKVLLRNLR GEEDSPSHIK RTSHESA
<b>Source</b>	Mammalian cell
<b>Target Names</b>	STC1
<b>Protein Names</b>	Recommended name: Stanniocalcin-1 Short name= STC-1
<b>Expression Region</b>	34-247
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The gene contains a 5' UTR rich in CAG trinucleotide repeats. The encoded protein contains 11 conserved cysteine residues and is phosphorylated by protein kinase C exclusively on its serine residues. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Overexpression of human stanniocalcin 1 in mice produces high serum phosphate levels, dwarfism, and increased metabolic rate. This gene has altered expression in hepatocellular, ovarian, and breast cancers.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.