Recombinant Guinea pig Stanniocalcin-2 (STC2)

Product Code	CSB-BP022822GU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P57675
Product Type	Recombinant Protein
Immunogen Species	Cavia porcellus (Guinea pig)
Purity	≥85% (SDS-PAGE)
Sequence	TDAXNPPEGP QDRGSQQKGR LSLQNTAEIQ HCLVNAGDVG CGVFECFENN XCXIXXLHXI SFIKAHALRF GCISREMVFQ LQRECYLKHD LCMINFRDLL LHEPYVDLVN LLLTCGEDVK EAVTRSIQAQ CEQNWGGLCS ILSFCTSNVQ RPXAXQPXAD RAQVSRPHHH DTGHHLLEAI XGAKGERGSK SHPSVRA
Source	Baculovirus
Target Names	STC2
Protein Names	Recommended name: Stanniocalcin-2 Short name= STC-2
Expression Region	1-197
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
Reconstitution	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.
Shelf Life	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.