



Recombinant Mouse Stanniocalcin-1 (Stc1)

Product Code	CSB-EP022821MO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O55183
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥85% (SDS-PAGE)
Sequence	VAAQNSA EVVRCLNSAL QVGC GAFACL ENSTCDTDGM YDICKSFLYS AAKFDTQGKA FVKESLKCIA NGITSKVFLA IRR CSTFQRM IAEVQEDCYS KLVNCSI AKR NPEAITEVIQ LPNHFSNRY Y NRLVRSLL EC DEDTVSTIRD SLMEKIGPNM ASLFHILQTD HCAQTHPRAD FNRRRTNEPQ KLKVLLRNLR GEGDSPSHIK RTSQESA
Source	E.coli
Target Names	Stc1
Protein Names	Recommended name: Stanniocalcin-1 Short name= STC-1
Expression Region	34-247
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 of Mature 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 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.
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.