



Recombinant Mouse Stanniocalcin-1 (Stc1)

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| Product Code | CSB-MP022821MO |
| 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 ENSTC DTDGM YDICKSFLYS AAKFDTQGKA FVKESLKCIA NGITSKVFLA IRR CSTFQRM IAEVQEDCYS KLVNCSI AKR NPEAITEVIQ LPNHFSNRY Y NRLVRS LLEC DEDTVSTIRD SLMEKIGPNM ASLFHILQTD HCAQTHPRAD FNRRRTNEPQ KLKVLLRNLR GEGDSPSHIK RTSQESA |
| Source | Mammalian cell |
| 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. |