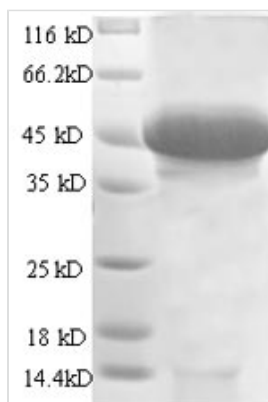




Recombinant Human Stanniocalcin-1 (STC1), partial

Product Code	CSB-EP022821HU1
Relevance	Stimulates renal phosphate reabsorption, and could therefore prevent hypercalcaemia.
Abbreviation	Recombinant Human STC1 protein, partial
Storage	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.
Uniprot No.	P52823
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SAEVVRCCLNSALQVGCGAFACLENSTCDTDGMYDICKSFLYSAAKFDTQGKAFVKESLKCIANGVTSTKVFLAIRRCSTFQRMIAEVQEECYSKLNVCSIAKRNPETITEVVQLPNHFSNRYNRLVRSLLCEDEDTVSTIRDLSLMEKIGPNMASLFHILQTDHCAQTHPRADFNRRRTNEPQKLKVLRLNLRGEEDSPSHIKRTSHESA
Research Area	Metabolism
Source	E.coli
Target Names	STC1
Expression Region	39-247aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	50.6kDa
Protein Length	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Description

The region for expressing recombinant Human STC1 contains amino acids 39-247. The expected molecular weight for the STC1 protein is calculated to be 50.6 kDa. This STC1 protein is produced using e.coli expression system. The STC1 coding gene included the N-terminal GST tag, which simplifies the detection and purification processes of the recombinant STC1 protein in following stages of expression and purification.

Human stanniocalcin-1 (STC1) is known to regulate cellular responses to stress, inflammation, and hypoxia. It has been implicated in angiogenesis, cell proliferation, and apoptosis, indicating its involvement in tissue development and repair. Moreover, STC1 has been associated with cancer, with varying roles in different types of tumors, either promoting or inhibiting tumor progression. In addition to its endocrine functions, STC1 acts as a paracrine or autocrine factor in various tissues. The diverse functions of STC1 make it an intriguing molecule with potential implications in both normal physiology and disease states, particularly in the context of cancer and tissue homeostasis.

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.