

STC1/Stanniocalcin-1 Protein, Human (HEK293, His)

Cat. No.:	HY-P71338
Synonyms:	Stanniocalcin 1; stanniocalcin-1; STC1; STC-1; STCSTC-1
Species:	Human
Source:	HEK293
Accession:	P52823 (T18-A247)
Gene ID:	6781
Molecular Weight:	33-36 kDa

PROPERTIES

AA Sequence	<p> T H E A E Q N D S V S P R K S R V A A Q N S A E V V R C L N S A L Q V G C G A F A C L E N S T C D T D G M Y D I C K S F L Y S A A K F D T Q G K A F V K E S L K C I A N G V T S K V F L A I R R C S T F Q R M I A E V Q E E C Y S K L N V C S I A K R N P E A I T E V V Q L P N H F S N R Y Y N R L V R S L L E C D E D T V S T I R D S L M E K I G P N M A S L F H I L Q T D H C A Q T H P R A D F N R R R T N E P Q K L K V L L R N L R G E E D S P S H I K R T S H E S A </p>
Biological Activity	Measured in a cell proliferation assay using MCF-7 cells. The ED ₅₀ for this effect is 1.019 ng/mL, corresponding to a specific activity is 9.81×10 ⁵ U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	STC1, also known as Stanniocalcin-1 protein, plays a crucial role in stimulating renal phosphate reabsorption, thereby offering a potential safeguard against hypercalcemia. The protein functions as a homodimer, with disulfide linkages contributing to its structural integrity and functional activity. Its involvement in renal processes highlights its significance in
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the intricate regulation of phosphate levels, suggesting a key role in maintaining mineral homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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