

STC2/Stanniocalcin-2 Protein, Human (HEK293, His)

Cat. No.:	HY-P76096
Synonyms:	Stanniocalcin-2; STC-2; STC-related protein; STCRP
Species:	Human
Source:	HEK293
Accession:	O76061 (T25-R302)
Gene ID:	8614
Molecular Weight:	33-43 kDa

PROPERTIES

AA Sequence	<p>T D A T N P P E G P Q D R S S Q Q K G R L S L Q N T A E I Q H C L V N A G D V G</p> <p>C G V F E C F E N N S C E I R G L H G I C M T F L H N A G K F D A Q G K S F I K</p> <p>D A L K C K A H A L R H R F G C I S R K C P A I R E M V S Q L Q R E C Y L K H D</p> <p>L C A A A Q E N T R V I V E M I H F K D L L L H E P Y V D L V N L L L T C G E E</p> <p>V K E A I T H S V Q V Q C E Q N W G S L C S I L S F C T S A I Q K P P T A P P E</p> <p>R Q P Q V D R T K L S R A H H G E A G H H L P E P S S R E T G R G A K G E R G S</p> <p>K S H P N A H A R G R V G G L G A Q G P S G S S E W E D E Q S E Y S D I R R</p>
Biological Activity	Measured by its ability to inhibit Wnt-3a-induced alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED ₅₀ for this effect is 23.21 ng/mL in the presence of 10 ng/mL of Recombinant Mouse Wnt-3a, corresponding to a specific activity is 4.308×10 ⁴ U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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	STC2, a crucial player in calcium and phosphate homeostasis, exerts a potent anti-hypocalcemic action. Operating as a
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homodimer with disulfide linkages, STC2 showcases its structural significance in mediating regulatory responses related to the balance of calcium and phosphate levels. This distinctive property underscores the pivotal role of STC2 in maintaining the intricate equilibrium of essential minerals within the physiological milieu.

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

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