

STC2/Stanniocalcin-2 Protein, Mouse

Cat. No.:	HY-P71450
Synonyms:	Stc2; Stanniocalcin-2; STC-2
Species:	Mouse
Source:	E. coli
Accession:	O88452 (25T-296R)
Gene ID:	20856
Molecular Weight:	Approximately 34 kDa

PROPERTIES

AA Sequence	<p> TDSTNPPEGP QDRSSQQKGR LSLQNTAEIQ HCLVNAGDVG CGVFECFENN SCEIQGLHGI CMTFLHNAGK FDAQGKSFIK DALRCKAHAL RHKFGCISRK CPAIREMVFQ LQRECYLKHD LCSAAQENVG VIVEMIHFKD LLLHEPYVDL VNLLLTGEGD VKEAVTRSVQ AQCEQSWGGL CSILSFACTSN IQRPTAAPE HQPLADRAQL SRPHHRDTDH HLTANRGAKG ERGSKSHPNA HARGRTGGQS AQGPSGSSEW EDEQSEYSDI RR </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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	<p>Stanniocalcin-2 (STC2) is a protein with an anti-hypocalcemic action, actively participating in the regulation of calcium and phosphate homeostasis. STC2 forms homodimers through disulfide linkages, emphasizing its structural organization. Its anti-hypocalcemic activity suggests a crucial role in maintaining appropriate levels of calcium and phosphate in the body, highlighting its potential significance in various physiological processes. Further research may delve into the specific molecular pathways through which STC2 modulates calcium and phosphate homeostasis, shedding light on its broader implications for overall systemic balance and its potential relevance in therapeutic contexts related to mineral metabolism.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA