Stanniocalcin 2 Human HEK293

Product Data Sheet

Type: Recombinant
Source: HEK293
Species: Human
Other names: Stanniocalcin-related protein, STC-related protein, STCRP, STC2

Cat. No.:

RD172096020	(0.02 mg)
RD172096100	(0.1 mg)

Description

Total 289 AA. Mw: 31.9 kDa (calculated). C-Terminal Flag-tag, 12AA (highlighted). The AA sequence is identical to Swiss-Prot-O76061 (STC2, aa 25-302).

Introduction to the Molecule

Stanniocalcin-2 is a secreted protein, homodimer, disulfide-linked. It has an anti-hypocalcemic action on calcium and phosphate homeostasis. It is expressed in a variety of tissues including muscle, heart, pancreas, kidney, spleen, prostate, small intestine, colon and peripheral blood leucocytes. It belongs to the stanniocalcin family.

Research topic

Bone and cartilage metabolism, Oncology

Amino Acid Sequence

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TDATNPPEGP QDRSSQQKGR LSLQNTAEIQ HCLVNAGDVG CGVFECFENN SCEIRGLHGI CMTFLHNAGK FDAQGKSFIK
DALKCKAHAL RHRFGCISRK CPAIREMVSQ LQRECYLKHD LCAAAQENTR VIVEMIHFKD LLLHEPYVDL VNLLLTCGEE
VKEAITHSVQ VQCEQNWGSL CSILSFCTSA IQKPPTAPPE RQPQVDRTKL SRAHHGEAGH HLPEPSSRET GRGAKGERGS
KSHPNAHARG RVGGLGAQGP SGSSEWEDEQ SEYSDIRRAA ADYKDDDDK
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Thr 1 to Asn 5 were confirmed by N-terminal sequencing.

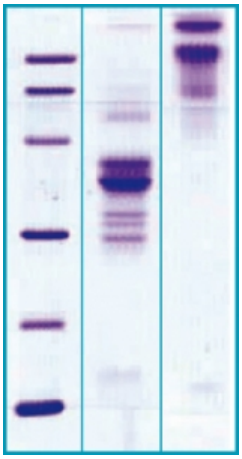
Source

HEK293

Purity

>90%

SDS-PAGE gel



12% SDS-PAGE separation of Human STC-2
1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated sample, 5µg/lane
3. non-reduced and non-heated sample, 5µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in PBS buffer, pH 7.4

Reconstitution

Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
LAL to determine quantity of endotoxin.

Applications

Cell culture and/or animal studies, ELISA, Western blotting

Note

This product is intended for research use only.

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