

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 is part of the stanniocalcin family.

Research topic

Bone and cartilage metabolism, Oncology

Amino Acid Sequence

TDATNPPEGP QDRSSQQKGR LSLQNTAEIQ HCLVNAGDVG CGVFECFENN SCEIRGLHGI CMTFLHNAGK FDAQGKSF
DALKCKAHAL RHRFGCISRK CPAIREMVSQ LQRECYLKHD LCAAQENTR VIVEMIHFKD LLLHEPYVDL VNLLLTGEE
VKEAITHSVQ VQCEQNWGSL CSILSFCTSA IQKPPTAPPE RQPQVDRTKL SRAHHGEAGH HLPEPSSRET GRGAKGERGS
KSHPNAHARG RVGGLGAQGP SGSSEWEDEQ SEYSDIRRAA **ADYKDDDDK**

Thr 1 to Asn 5 were confirmed by N-terminal sequencing.

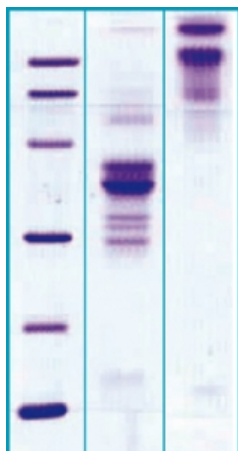
Source

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

Formulation

Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM Tris buffer, 20 mM NaCl, pH 7.5

Reconstitution

Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping

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

Storage, Stability/Shelf Life

Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°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.

Applications

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

Note

This product is intended for research use only.

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