

Human STC2 / Stanniocalcin 2 Protein (Fc Tag)

Catalog Number: 13653-H02H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

STC-2; STCRP; AW125853; mustc2; Stc2l

Protein Construction:

A DNA sequence encoding the human STC2 (O76061) (Met1-Arg302) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Thr 25

Molecular Mass:

The recombinant human STC2/Fc is a disulfide-linked homodimer. The reduced monomer comprises 519 amino acids and has a predicted molecular mass of 57.7 kDa. The apparent molecular mass of the protein is approximately 63 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

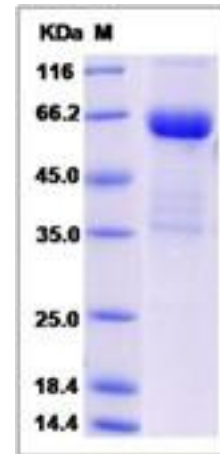
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

STC2 is a secreted, homodimeric glycoprotein which expressed in a wide variety of tissues. STC2 has an anti-hypocalcemic action on calcium and phosphate homeostasis. It may have autocrine or paracrine functions. Its C-terminus contains a cluster of histidine residues which may interact with metal ions. STC2 has 10 of its 15 cysteine residues conserved among stanniocalcin family members and is phosphorylated by casein kinase 2 exclusively on its serine residues. It may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis.

References

- 1.Chang AC, *et al.* (1998) Identification of a second stanniocalcin cDNA in mouse and human: stanniocalcin 2. *Mol Cell Endocrinol.* 141(1-2):95-9.
- 2.Ishibashi K, *et al.* (1998) Molecular cloning of a second human stanniocalcin homologue (STC2). *Biochem Biophys Res Commun.* 250(2):252-8.
- 3.uo CW, *et al.* (2005) Identification of a stanniocalcin paralog, stanniocalcin-2, in fish and the paracrine actions of stanniocalcin-2 in the mammalian ovary. *Endocrinology.* 146(1):469-76.

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