# TESC 抗原（重组蛋白）

中文名称： TESC 抗原（重组蛋白）

英文名称： TESC Antigen (Recombinant Protein)

别　　名： tescalcin; TSC; CHP3

相关类别： 抗原

储　　存： 冷冻（-20℃）

## 概述

Fusion protein corresponding to a region derived from 15-214 amino acids of human TESC

## 技术规格

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| **Full name:** | tescalcin |
| **Synonyms:** | TSC; CHP3 |
| **Swissprot:** | Q96BS2 |
| **Gene Accession:** | BC015221 |
| **Purity:** | >85%, as determined by Coomassie blue stained SDS-PAGE |
| **Expression system:** | Escherichia coli |
| **Tags:** | His tag C-Terminus, GST tag N-Terminus |
| **Background:** | Tescalcin, also known as TESC, TSC or CHP3, is a 267 amino acid protein that contains one EF-hand domain and is expressed abundantly in adult heart tissue. Using calcium as a cofactor, Tescalcin interacts with NHE-1 and functions to couple the activation of the ERK cascade with the expression of Ets proteins during megakaryocytic differentiation. Human Tescalcin shares 97% sequence identity with its mouse counterpart, suggesting a conserved role between species. Multiple isoforms of Tescalcin exist due to alternative splicing events. Functions as an integral cofactor in cell pH regulation by controlling plasma m |

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| | embrane-type Na+/H+ exchange activity. Promotes the maturation, tr ansport, cell surface stability and exchange activity of SLC9A1/NHE1 at the plasma membrane. Promotes the induction of hematopoietic s tem cell differentiation toward megakaryocytic lineage. Essential for t he coupling of ERK cascade activation with the expression of ETS fa mily genes in megakaryocytic differentiation. Also involved in granulo cytic differentiation in a ERK-dependent manner. Inhibits the phospha tase activity of calcineurin. |