

Human TSC22D1 Protein (His Tag)

Catalog Number: 12724-H07E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

Ptg-2; TGFB1I4; TSC22; AA589566; AW105905; Egr5; Tgfb1i4; Tsc; TSC-22; Tsc22

Protein Construction:

A DNA sequence encoding the human TSC22D1 isoform 2 (Q15714-2) (Met 1-Ala 144) was expressed, with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

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

Predicted N terminal: Met

Molecular Mass:

The recombinant human TSC22D1 consisting of 155 amino acids and has a calculated molecular mass of 17.2 kDa. It migrates as an 20 kDa band in SDS-PAGE under reducing conditions as predicted.

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:

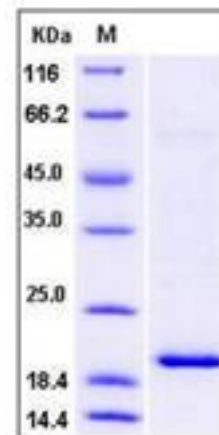
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

TSC22 domain family, member 1 (TSC22D1) is one of the TGF-beta-stimulated clone-22 (TSC-22). TSC-22 was reported to be a differentiation-inducing factor which negatively regulates the growth of salivary gland cancer cells. TSC22D1, which encodes transforming growth factor beta-stimulated clone 22 (TSC-22), is thought to be a tumor suppressor because its expression is lost in many glioblastoma, salivary gland, and prostate cancers. TSC-22 is the founding member of the TSC-22/DIP/Bun family of leucine zipper transcription factors. TSC-22 may play an important role in maintaining the differentiated phenotype in salivary gland tumors, and may be a possible target of leukemia therapy. TSC22D1 forms homodimers via its conserved leucine zipper domain and heterodimerizes with TSC22D4. TSC22D1 has transcriptional repressor activity.

References

1. Doi Y, *et al.* (2008) Expression and cellular localization of TSC-22 in normal salivary glands and salivary gland tumors: implications for tumor cell differentiation. *Oncol Rep.* 19(3): 609-16.
2. Wu X, *et al.* (2008) The Drosophila homolog of human tumor suppressor TSC-22 promotes cellular growth, proliferation, and survival. *Proc Natl Acad Sci U S A.* 105(14): 5414-9.
3. Lu Y, *et al.* (2007) Identification of TSC-22 as a potential tumor suppressor that is upregulated by Flt3-D835V but not Flt3-ITD. *Leukemia.* 21(11): 2246-57.

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