

Recombinant Human TSC1 Protein, His-tagged

Cat. No. TSC1-494H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TSC1 Protein (Asp998-Ser1164) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asp998-Ser1164
Description	This gene is a tumor suppressor gene that encodes the growth inhibitory protein hamartin. The encoded protein interacts with and stabilizes the GTPase activating protein tuberin. This hamartin-tuberin complex negatively regulates mammalian target of rapamycin complex 1 (mTORC1) signaling which is a major regulator of anabolic cell growth. This protein also functions as a co-chaperone for Hsp90 that inhibits its ATPase activity. This protein functions as a facilitator of Hsp90-mediated folding of kinase and non-kinase clients, including TSC2 and thereby preventing their ubiquitination and proteasomal degradation. Mutations in this gene have been associated with tuberous sclerosis and lymphangioleiomyomatosis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 21.2 kDa Accurate Molecular Mass: 26 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TSC1 tuberous sclerosis 1 [Homo sapiens (human)]
Official Symbol	TSC1
Synonyms	TSC1; tuberous sclerosis 1; TSC; hamartin; KIAA0243; LAM; tumor suppressor; tuberous sclerosis 1 protein; MGC86987
Gene ID	7248
mRNA Refseq	NM_000368
Protein Refseq	NP_000359
MIM	605284

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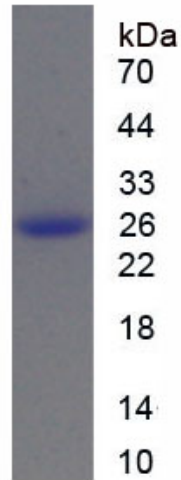
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UniProt ID

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