Recombinant Human TSC2, His-tagged

Cat. No. TSC2-31631TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1396-1725 of Human Tuberin Isoform 5 with N terminal His tag, MWt 38kDa.
Species	Human
Source	E.coli
ProteinLength	1396-1725 a.a.
Description	Mutations in this gene lead to tuberous sclerosis complex. Its gene product is believed to be a tumor suppressor and is able to stimulate specific GTPases. The protein associates with hamartin in a cytosolic complex, possibly acting as a chaperone for hamartin. Alternative splicing results in multiple transcript variants encoding different isoforms.
Conjugation	HIS
Tissue specificity	Liver, brain, heart, lymphocytes, fibroblasts, biliary epithelium, pancreas, skeletal muscle, kidney, lung and placenta.
Form	Lyophilised:Reconstitute with 78 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	ISDSAPSRRGKRVERDALKSRATASNAEKVPGINPSFVFL QLYHSPFFGDESNKPIL LPNESQSFERSVQLLDQIPSY DTHKIAVLYVGEGQSNSELAILSNEHGSYRYTEFLT GL GRLIELKDCQPDKVYLGGLDVCGEDGQFTYCWHDDIMQ AVFHIATLMPTKDVD KHRCDKKRHLGNDFVSIVYNDSGEDFKLGTIKGQFNFVHVIVTPLDYECNLVSLQCR KDMEGL VDTSVAKIVSDRNLPFVARQMALHANMASQVHHSRSNP TDIYPSKWIARL RHIKRLRQRICEEAAYSNPSLPLVHP PSHSKAPAQTPAEPTPGYEVGQ
Sequence Similarities	Contains 1 Rap-GAP domain.

GENE INFORMATION

Gene Name	TSC2 tuberous sclerosis 2 [Homo sapiens]
Official Symbol	TSC2
Synonyms	TSC2; tuberous sclerosis 2; TSC4; tuberin; LAM;
Gene ID	7249
mRNA Refseq	NM_000548
Protein Refseq	NP_000539
MIM	191092
Uniprot ID	P49815
Chromosome Location	16p13.3

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Pathway	AKT phosphorylates targets in the cytosol, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; Downstream signal transduction, organism-specific biosystem; Downstream signaling of activated FGFR, organism-specific biosystem; Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem;
Function	14-3-3 protein binding; GTPase activator activity; protein binding; protein heterodimerization activity; protein homodimerization activity;

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