

OriGene Technologies, Inc.

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Product datasheet for TP762028

Hamartin (TSC1) (NM_000368) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins	
Description:	Purified recombinant protein of Human tuberous sclerosis 1 (TSC1), transcript variant 1,Ser836-His1164, with N-terminal His tag, expressed in E. coli, 50ug	
Species:	Human	
Expression Host:	E. coli	
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region(Ser836-His1164) of TSC1	
Tag:	N-His	
Predicted MW:	36.6 kDa	
Concentration:	>0.05 µg/µL as determined by microplate BCA method	
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining	
Buffer:	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol	
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.	
Storage:	Store at -80°C.	
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.	
RefSeq:	<u>NP 000359</u>	
Locus ID:	7248	
UniProt ID:	<u>Q92574, Q86WV8, X5D9D2</u>	
RefSeq Size:	8617	
Cytogenetics:	9q34.13	
RefSeq ORF:	3504	
Synonyms:	LAM; TSC	



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	iGENE Hamartin (TSC1) (NM_000368) Human Recombinant Protein – TP762028	
Summary:	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) signalling 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. [provided by RefSeq, Apr 2018]	
Protein Pathway	ys: Insulin signaling pathway, mTOR signaling pathway	

Product images:

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66 —	
45 —	-
35 —	Ξ
25 —	-
18	
14 —	

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