Serine/Threonine-Protein Kinase 4 (stk4) Xenopus Tropicalis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine/threonine-protein kinase 4 (stk4), Recombinant Protein
Full Product Name	Recombinant Xenopus tropicalis Serine/threonine-protein kinase 4 (stk4)
Product Gene Name	stk4 recombinant protein
Product Synonym Gene Name	stk4
Sequence	METVQLRNNP RRHLKKLSEE SLNKQPEEVF DVLEKLGEGS YGSVYKASHK ETSQIVAIKQ IPVESDLQEI IKEIAIMQQC DSLHVVKYYG SYFKNTDLWI VMEFCGGGSI SDIIRLRKQT LKEDETATIL QSTLKGLEYL HFMRKIHRDI KAGNILLNSE GTAKLADFGV AGQLTDTMAK RNTVIGTPFW MAPEVIQEIG YNCVADIWSL GITAIEMAEG KPPYAEIHPM RAIFMIPSNP PPTFRKPELW SKDFVDFINL CLVKNPELRS SATELLQHPF IKTAKGESIL RHLINEAQDA KLKRTELKQR EVEPEEEENA DEDEADVGTM VQAGSKDLNT MKEFSTMNEA ADCTMVEKDK LNTQMGTMLI NDEDEEETGT MKQCTEPVQP AKPSFLEYFE QKENQFGTPE KTTPAPSTDP SEWKIPLNGD YSFLKDWSVT ELQLRLNSLD PMMEQEIEEI HHKYQAKRQP ILEAIESKKR RQQNF
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	55,397 Da
Sequence Positions	1-485, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6P3Q4
Species	Xenopus tropicalis (Western clawed frog) (Silurana tropicalis)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for stk4 recombinant protein	MBS1337492 is a recombinant protein targeting stk4. Also known as Recombinant Xenopus tropicalis Serine/threonine-protein kinase 4 (stk4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of stk4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for stk4. It may not necessarily be applicable to this product.

NCBI GI #	45361343
NCBI GeneID	394860
NCBI Accession #	NP_989249.1
UniProt Primary Accession #	Q6P3Q4

UniProt Secondary Accession #	Q28EH4
UniProt Related Accession #	Q6P3Q4
GenBank Nucleotide #	NM_203918.1
NCBI Official Full Name	serine/threonine-protein kinase 4
NCBI Official Synonym Full Names	serine/threonine kinase 4
NCBI Official Symbol	stk4
NCBI Official Synonym Symbols	krs2; mst1; ysk3
UniProt Protein Name	Serine/threonine-protein kinase 4
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	stk4
UniProt Synonym Gene Names	MST1/N; MST1/C
NCBI Protein Information	serine/threonine-protein kinase 4
UniProt Comments for stk4	Stress-activated, pro-apoptotic kinase which, following caspase-cleavage, enters the nucleus and induces chromatin condensation followed by internucleosomal DNA fragmentation. Key component of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein stk3/mst2 and stk4/mst1, in complex with its regulatory protein sav1, phosphorylates and activates lats1/2 in complex with its regulatory protein mob1, which in turn phosphorylates and inactivates yap1 oncoprotein and wwtr1/taz. Phosphorylation of yap1 by lats2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. Phosphorylates 'Ser-14' of histone H2B (H2BS14ph) during apoptosis.
Research Articles on stk4	**1.** Results indicate that Mst1/2 act as a differentiation switch in hematopoietc and endothelial progenitors.
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