

Serine/threonine-protein phosphatase PP1-alpha catalytic subunit (PPP1CA) Recombinant Protein | PPP1CA recombinant protein

Recombinant Dog Serine/threonine-protein phosphatase PP1-alpha catalytic subunit (PPP1CA)

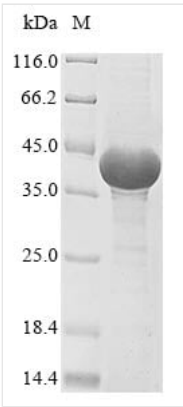
CATALOG # AAA117649	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Serine/threonine-protein phosphatase PP1-alpha catalytic subunit (PPP1CA); Recombinant Dog Serine/threonine-protein phosphatase PP1-alpha catalytic subunit (PPP1CA); PPP1CA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-330aa (X155S; X158S); Full Length of Mature Protein
Sequence	There are two 'X' in the original sequence (Q8WMS6) which refer to any amino acid. The 'X's have already been with 'S' in this sequence. SD SEKLNLSII GRLEVQGS R PGKNVQLTEN EIRGLCLKSR EIFLSQPILL ELEAPLKICG DIHGQYYDLL RLFYGGFPP ESNYFLGDY VDRGKQSLET ICLLAYKIK YPENFFLLRG NHECASINRI YGFYDECKRR YNIKLWKTFT DSFNSLPAA IVDEKIFCCH GGLSPDLQSM EQIRIRMRPT DVPDQGLLCD LLWSDPKDV QGWGENDRGV SFTFGAEVVA KFLHKHDLDL ICRAHQVVED GYEFFAKRQL VTLFSAPNYC GEFDNAGAMM SVDETLMCSF QILKPADKNK GKYGQFSGLN PGGRPITPPR NSAKAKK
Species	Canis lupus familiaris (Dog) (Canis familiaris)
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
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.



SDS-PAGE

Q8WMS6-1 [UniParc] FASTA Add to basket				
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10	20	30	40	50
MSDSEKLNLD	SIIGRLLEVQ	GSRFCKNVQL	TENEIRGLCL	KSREIFLSQP
60	70	80	90	100
ILLELEAPLK	ICGDIHQYTY	DLRLFEYGG	FPFESNYLFL	GDYVDRGQS
110	120	130	140	150
LETICLLAY	KIKYPENFFL	LRGNHECASI	NRIYGFYDEC	KRRYNIKLVK
160	170	180	190	200
TFTD	XFNLP	IAAIVDEKIF	OCHGGLSPDL	QSMEQIRIM
210	220	230	240	250
LCDLLWSDPD	KDVQGWGEND	RGVSFTFGAE	VVAKFLHKHD	LDLICRAHQV
260	270	280	290	300
VEDGYEFFAK	RQLVTLFSAP	NYCGEFDNAG	AMNSVDETLN	CSFQILKPAD
310	320	330		
KNKCKYQQFS	CLNPGCRPIT	PPRNSAKAKK		

Sequence
Uniprot Q8WMS6 sequence contains two 'X' (red arrows), X refers to any amino acid. The 'X' have replaced with 'S' for protein manufacture

ADDITIONAL INFORMATION

Related Product Information for PPP1CA recombinant protein	Protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca2+ calmodulin dependent protein kinase II. Component of the PTW PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. Regulates NEK2 function in terms of kinase activity and centrosome number and splitting, both in the presence and absence of radiation-induced DNA damage. Regulator of neural tube and optic fissure closure, and enteric neural crest cell (ENCCs) migration during development. In balance with CSNK1D and CSNK1E, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. May dephosphorylate CSNK1D and CSNK1E. Dephosphorylates CENPA. Dephosphorylates the 'Ser-139' residue of ATG16L1 causing dissociation of ATG12-ATG5-ATG16L1 complex, thereby inhibiting autophagy
Product Categories/Family for PPP1CA recombinant protein	Cancer
References	"Protein phosphatase 1 regulates the phosphorylation state of the polarity scaffold Par-3." Traweger A., Wiggin G., Taylor L., Tate S.A., Metalnikov P., Pawson T. Proc. Natl. Acad. Sci. U.S.A. 105:10402-10407(2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	62900700
NCBI GeneID	403609
UniProt Accession #	Q8WMS6
Molecular Weight	42.3 kDa
NCBI Official Full Name	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit
NCBI Official Symbol	PPP1CA
NCBI Protein Information	serine/threonine-protein phosphatase PP1-alpha catalytic subunit
UniProt Protein Name	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit
UniProt Gene Name	PPP1CA
UniProt Synonym Gene Names	PP-1A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/ppp1ca-recombinant-protein-e-coli/117649>