

Phosphatase 1A Alpha Active Protein | PPM1A active protein

Recombinant Human Protein Phosphatase 1A Alpha Isoform

CATALOG #
AAA38393

HOST
E Coli

PRODUCT SYNONYMS

Phosphatase 1A Alpha; Recombinant Human Protein Phosphatase 1A Alpha Isoform; PPM1A Human; Protein Phosphatase 1A Alpha Isoform Human Recombinant; Protein phosphatase 1A; EC 3.1.3.16; Protein phosphatase 2C isoform alpha; PP2C-alpha; IA; PPM1A; PP2CA; MGC9201; PPM1A active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by(a)Analysis by RP-HPLC. (b)Analysis by SDS-PAGE.
Form/Format	The protein (1mg/ml) In phosphate-buffered saline (pH 7.4) Sterile filtered colorless solution.
Sequence	MRGSHHH HHHGMASMTG GQQMGRDLYD DDDKDRWIL< /u>MGAFLDK PKMEKHNAQG QGNGLRYGLS SMQGWVRVEME DAHTAVIGLP SGLESWSFFA VYDGHAGSQV AKYCCEHLLD HITNNQDFKG SAGAPSVENV KNGIRTGFLE IDEHMRVMSE KKHGADRSGS TAVGVLISPO HTYFINGGDS RGLLCRNKRV HFFTQDHKPS NPLEKERIQN AGGSVMIQRV NGS LAVSRAL GDFDYKCVHG KGPTEQLVSP EPEVHDIERS EEDDQFIILA CDGIWDVMGN EELCDFVRSR LEVTDDLEKV CNEVDTCLY KGS RDNMSVI LICFPNAPKV SPEAVKKEAE LDKYLECRVE EIIKKQGEV PDLVHVMRTL ASENIPSLPP GGELASKRNV IEAVYNRLNP YKNDTDTSTS TDDMW
Sequence Length	382
Unit Defenition	One unit will hydrolyze 1nanomole of p-nitrophenylphosphatate per minute at pH 7.4 at 37 degree C using 10mM of substrate.
Activity	8,000 U/mg.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PPM1A active protein	Description: Protein Phosphatase 1A Alpha Isoform Human Recombinant produced is a single, non-glycosylated polypeptide chain containing 382 amino acids and having a molecular mass of 46.6KDa (containing His tag, T7 gene 10 leader, Xpress™ Epitope). The protein coding region of PP2Calpha (amino acids 1-382) was cloned into an E Coli expression vector. PPM1A was overexpressed in E Coli as a soluble His-tag fusion protein, and it was purified by conventional column chromatographic techniques. Introduction: Protein Phosphatase 2C alpha is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding two distinct isoforms have been described. Protein phosphatase 2C(PP2C?) is a Mn2+- or Mg2+-dependent protein serine/threonine phosphatase that is essential for regulating cellular stress response in eukaryotes.
Product Categories/Family for PPM1A active protein	Protein Kinases; Enzymes; Phosphatase

NCBI AND UNIPROT INFORMATION

NCBI GI #	10337595
NCBI GeneID	5494
NCBI Accession #	NP_066283.1
NCBI GenBank Nucleotide #	NM_021003.4
UniProt Accession #	P35813; O75551; B5BU11; J3KNM0
Molecular Weight	51,366 Da
NCBI Official Full Name	protein phosphatase 1A isoform 1
NCBI Official Synonym Full Names	protein phosphatase, Mg2+/Mn2+ dependent, 1A
NCBI Official Symbol	PPM1A
NCBI Official Synonym Symbols	PP2CA; PP2Calpha; PP2C-ALPHA
NCBI Protein Information	protein phosphatase 1A; protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform
UniProt Protein Name	Protein phosphatase 1A
UniProt Gene Name	PPM1A
UniProt Synonym Gene Names	PPPM1A; PP2C-alpha
UniProt Entry Name	PPM1A_HUMAN

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/e-coli-ppm1a-active-protein/phosphatase-1a-alpha/38393>