

# Product Datasheet

## Recombinant Human PP1 alpha/PPP1A His Protein NBP1-72418-10ug

Unit Size: 10 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-72418-10ug**

Recombinant Human PP1 alpha/PPP1A His Protein

Product Information	
Unit Size	10 ug
Concentration	0.2 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Preservative	No Preservative
Purity	>80%, by SDS-PAGE
Buffer	50mM Tris-HCl buffer (pH 8.5), 0.2M NaCl, 1mM DTT, 0.1mM PMSF, 1mM MnCl <sub>2</sub> , 50% glycerol
Target Molecular Weight	39.7 kDa

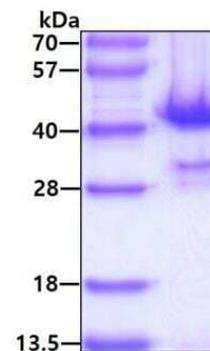
Product Description	
Description	<p>A bioactive recombinant protein with a N-Terminal His-tag and corresponding to the amino acids 1-330 of Human PP1 alpha/PPP1A</p> <p><b>Source:</b> <i>E.coli</i></p> <p><b>Amino Acid Sequence:</b> MGSSHHHHHH SGLVPRGSH MSDSEKLNLD SIIGRLLEVQ GSRPGKNVQL TENEIRGLCL KSREIFLSQP ILLELEAPLK ICGDIHGQYY DLLRLFYGG FPESNYLFL GDYVDRGKQS LETICLLLAY KIKYPENFFL LRGNHECASI NRIYGFYDEC KRRYNIKLWK TFTDCFNCLP IAAIVDEKIF CCHGGLSPDL QSMEQIRRM RPTDVPDQGL LCDLLWSDPD KDVQGWGEND RGVSTFTGAE VVAKFLHKHD LDLICRAHQV VEDGYEFFAK RQLVTLFSAP NYCGEFDNAG AMMSVDETLM CSFQILKPAD KNKGKYGQFS GLNPGGRPIT PPRNSAKAKK</p>
Gene ID	5499
Gene Symbol	PPP1CA
Species	Human
Details of Functionality	Specific activity >3,000 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme hydrolyzing 1 nmole of p-nitrophenyl phosphate (pNPP) per minute at 37C, pH7.5 using 10mM of substrate.

Product Application Details	
Applications	SDS-Page, Enzyme Activity
Recommended Dilutions	SDS-Page, Enzyme Activity



## Images

SDS-Page: Recombinant Human PP1 alpha/PPP1A Protein [NBP1-72418] - 3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.



## Publications

Kastian RF, Baba K, Kaewkascholkul N et al. Dephosphorylation of neural wiring protein shootin1 by PP1 phosphatase regulates netrin-1-induced axon guidance *The Journal of biological chemistry* 2023-04-10 [PMID: 37044214] (In vitro)

Serpico AF, Febbraro F, Pisauro C, Grieco D Compartmentalized control of Cdk1 drives mitotic spindle assembly *Cell reports* 2022-01-25 [PMID: 35081344]

Tohyama S, Kawada M, Muramatsu H Et Al. The potent protein phosphatase 2A inhibitors aminocytostatins: new derivatives of cytosstatin *The Journal of antibiotics* 2021-07-21 [PMID: 34290381]



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### **Products Related to NBP1-72418-10ug**

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NBP2-38559PEP	PP1 alpha/PPP1A Recombinant Protein Antigen
AF835	Caspase-3 Antibody [Unconjugated] - Active
NBP2-45384	PP1 alpha/PPP1A Antibody (OTI6E5)
202-IL-010	IL-2 [Unconjugated]

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