



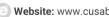


Recombinant Saccharomyces cerevisiae Polyphosphatase (PPX1)

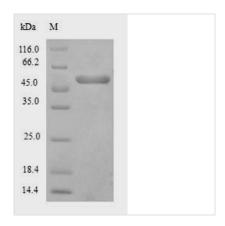
Product Code CSB-EP334459SVG Relevance Degradation of inorganic polyphosphates. Abbreviation Recombinant Saccharomyces cerevisiae PPX1 protein Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. Uniprot No. P38698 Product Type Recombinant Proteins Immunogen Species Saccharomyces cerevisiae (strain ATCC 204508 / S288c) (Baker's yeast) Purity Greater than 90% as determined by SDS-PAGE. Sequence MSPLRKTVPEFLAHLKSLPISKIASNDVLTICVGNESADMDSIASAITYSYCQYIY NEGTYSEEKKKGSFIVPIIDIPREDLSLRRDVMYVLEKLKIKEEELFFIEDLKSLK QNVSQGTELNSYLVDNNDTPKNLKMYIDNVYGIIDHHFDLQKHLDAEPRIVKYS GSCSSLVFNYWYEKLQGDREVVMNIAPLLMGAILIDTSNMRRKVEESDKLAIER CQAVLSGAVNEVSAQGLEDSSEFYKEIKSRKNDIKGFSVSDILKKDYKQFNFQ GKGHKGLEIGLSSIVKRMSWLFNEHGGEADFVNQCRRFQAERGLDVLVLLTS WRKAGDSHRELVILGDSNVVRELIERVSDKLQLQLFGGNLDGGVAMFKQLNV EATRKQVVPYLEEAYSNLEE Research Area Others Source E.coli Target Names PPX1 Expression Region 1-397aa Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. Tag Info N-terminal 6xHis-tagged		
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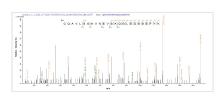




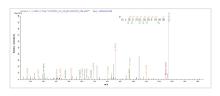




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



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Description

E.coli-expressed Recombinant Saccharomyces cerevisiae Exopolyphosphatase (PPX1) is a full-length protein carrying an N-terminal 6xHis-tag. It contains 397 amino acids and has a calculated molecular mass of 49.1 kDa. Its purity was determined by SDS-PAGE and reached up to 90%. The purified PPX1 migrated on the SDS-PAGE at a molecular weight of about 50 kDa. It was also identified and quantified using LC-MS/MS. This recombinant PPX1 protein may be used to immunize animals to produce specific antibodies or in the studies of PPX1participating inorganic polyphosphate hydrolysis. In-stock PPX1 proteins are available.

Exopolyphosphatase PPX1 is a phosphatase enzyme that catalyzes the hydrolysis of inorganic polyphosphate (polyP) and contributes to the maintenance of the polyP dynamic balance in the cells. The polyP is believed to exert a regulatory role in the transition to bacterial dormancy. Seema M. Thayil etc. demonstrated that PPX1 is required for M. tuberculosis (Mtb) growth and persistence in necrotic lung lesions, which may suggest a way to shorten latent tuberculosis (TB) treatment by targeting "persister" bacillia through the repression of a small molecule inhibitor to PPX1. In addition to degrading polyP, PPX1 has been implicated directly in bacterial virulence.

Shelf Life

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