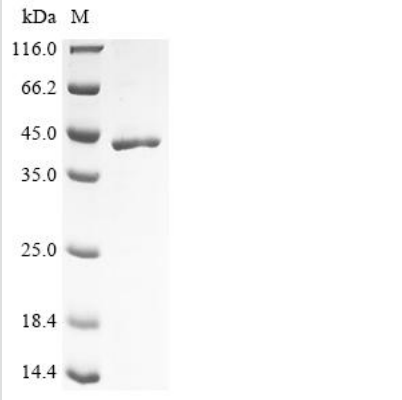
Recombinant Schizosaccharomyces pombe Major serine/threonine-protein phosphatase PP2A-2 catalytic subunit (ppa2)

Product Code	CSB-EP326422SXV
Abbreviation	Recombinant SchizosaccharoMyces pombe ppa2 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.	P23636
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Schizosaccharomyces pombe Major serine/threonine-protein phosphatase PP2A-2 catalytic subunit(ppa2)
Immunogen Species	Schizosaccharomyces pombe (strain 972 / ATCC 24843) (Fission yeast)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MSIDPANDSKLAPEANDATLGDVDRWIEQLKKCEPLSEADVEMLCDKAREVLC QENNVQPVRNPVTVCGDIHGQFHDLMELFKIGGDVPDMNYLFMGDYVDRGY HSVETVSLLVAMKLRYPNRITILRGNHESRQITQVYGFYDECLRKYGSANVWK HFTNLFDYFPLTALIEDRIFCLHGGLSPSIDSLDHVRTLDRVQEVPHEGPMCDL LWSDPDDRCGWGISPRGAGYTFGQDISETFNHANGLSLTARAHQLVMEGFN WAHDGDVVTIFSAPNYCYRCGNQAAILEVDDTMNQVFLQFDPAPREGEPVIAR RTPDYFL
Research Area	Others
Source	E.coli
Target Names	ppa2
Expression Region	1-322aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	43.9 kDa
Protein Length	Full Length
Image	



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

Description

To create the recombinant Schizosaccharomyces pombe ppa2 protein, the gene fragment encoding the full-length Schizosaccharomyces pombe ppa2 protein (1-322aa) is cloned into an expression vector. The expression vector is carefully engineered with an N-terminal 10xHis-tag and a C-terminal Myc-tag to facilitate the purification and detection of the recombinant protein. Following the construction of the recombinant expression vector, it is introduced into competent E. coli cells. The transformed cells are then selected on agar plates containing specific antibiotics corresponding to the expression vector's selection marker. Subsequently, the selected E. coli cells are cultured under optimal conditions to ensure efficient protein expression. Induction of protein expression is achieved using a suitable inducer, such as IPTG. Once induced, the E. coli cells are harvested by centrifugation and cell lysis is performed to release the cellular contents, including the recombinant ppa2 protein. The purity of the recombinant ppa2 protein is evaluated through SDS-PAGE analysis, confirming a purity level exceeding 85%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
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