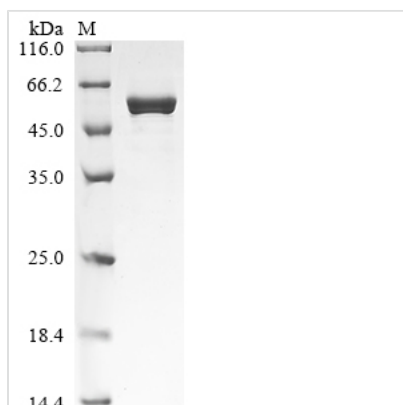




Recombinant Musa acuminata UTP--glucose-1-phosphate uridylyltransferase (UGPA)

Product Code	CSB-YP874393MVB
Abbreviation	Recombinant Musa acuminata UGPA 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.	Q9SDX3
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 Musa acuminata UTP--glucose-1-phosphate uridylyltransferase(UGPA)
Immunogen Species	Musa acuminata (Banana) (Musa cavendishii)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MADAKIAKLQSAVAELNQISENEKSGFISLVSRYLSGEAEQIEWSKIQTPTDEVV VPYDTLSPPPEDLEATKKLLDKLAVLKLNGGLGTTMGCTGPKSVIEVRNGFTFL DLIVIQIESLNKKYGCNVPLLLMNSFNTHDDTQKIVEKYANSNIEHTFNQSQYP RLVMEDFQPLPSKGHAGKDGWYPPGHGDVFPSLMNSGKLDALLSQGKEYVFI ANSDNLGAIVDIKILNHLINNQNEYCMEVTPKTLADVKGGLTISYEGRVQLLEIA QVPDAHVNEFKSIEKFKIFNTNNLWVNLKAIKRLVEADALKMEIIPNPKEVDGVK VLQLETAAGAAIRFFDHAIGINVPRSRFLPVKATSDLLLVQSDLYMLVDGFFVIRN KARTNPSNPSIELGPEFKKVANFLSRFKSIPSIVELDSLKVSGDVWFGEGVVLK GNVSIAAKSGVKLEISDGAVLENKVINGPEDI
Research Area	Others
Source	Yeast
Target Names	UGPA
Expression Region	1-467aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 6xHis-tagged
Mol. Weight	52.9 kDa
Protein Length	Full Length
Image	



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

Description

To produce the recombinant *Musa acuminata* UTP--glucose-1-phosphate uridylyltransferase (UGPA), the gene fragment encoding the full-length *Musa acuminata* UGPA protein (1-467aa) is cloned into a plasmid vector, creating a vector construct. This construct includes a C-terminal 6xHis-tag for purification purposes. The resulting vector construct is then introduced into yeast cells through transfection. Transfected yeast cells are selected using specific antibiotics, and they are subsequently cultured under appropriate conditions. The expression of the recombinant *Musa acuminata* UGPA protein is induced within the yeast cells using specific inducers. After successful expression, the yeast cells are harvested and lysed, allowing the release of cellular contents, including the recombinant UGPA protein. Purification of the recombinant UGPA protein is carried out from the cell lysate, achieving a purity level exceeding 90% as confirmed by SDS-PAGE analysis.

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. 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.