



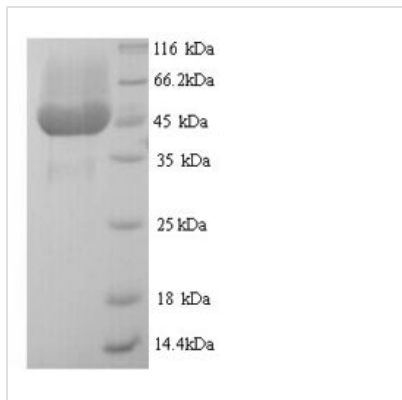
Recombinant Enterobacteria phage M13

Attachment protein G3P (III)

Product Code	CSB-YP303116ECY
Relevance	Plays essential roles both in the penetration of the viral genome into the bacterial host via pilus retraction and in the extrusion process. During the initial step of infection, G3P mediates adsorption of the phage to its primary receptor, the tip of host F-pilus. Subsequent interaction with the host entry receptor tolA induces penetration of the viral DNA into the host cytoplasm. In the extrusion process, G3P mediates the release of the membrane-anchored virion from the cell via its C-terminal domain.
Abbreviation	Recombinant Enterobacteria phage M13 Attachment protein G3P
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.	P69168
Alias	Gene 3 protein Short name: G3P Minor coat protein
Product Type	Recombinant Protein
Immunogen Species	Enterobacteria phage M13 (Bacteriophage M13)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	AETVESCLAKPHTENSFTNVWKDDKTLDRYANYEGCLWNATGVVVCTGDET QCYGTWVPIGLAIPENEGGGSEGGGSEGGGSEGGGSKPPEYGDTPIPGYTYI NPLDGTYPGTEQNPANPNPSLEESQPLNTFMFQNNRFRNRQGALT VYTGTV TQGTDPVKTTYQYTPVSSKAMYDAYWNGKFRDCAFHSGFNEDPFVCEYQGQ SSDLPQPPVNAGGGSGGGSGGGSEGGGSEGGGSEGGGSGGGSGGS GDFDYEKMANANKGAMTENADENALQSDAKGKLDSVATDYGAAIDGFIGDVS GLANGNGATGDFAGSNSQMAQVGDGDN SPLMNNFRQYLP SLPQSVECRPFV FSAGKPYEFSIDCDKINLFRGVFAFLLYVATFMYVFSTFANILRNKES
Research Area	Others
Source	Yeast
Target Names	III
Protein Names	Recommended name: Attachment protein G3P Alternative name(s): Gene 3 protein Short name= G3P Minor coat protein
Expression Region	19-424aa
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
Mol. Weight	44.6kDa


Protein Length

Full Length of Mature Protein

Image


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

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.