

Recombinant Enterobacteria phage M13 Attachment protein G3P

Catalog No: #AP72857

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Package Size: #AP72857-1 20ug #AP72857-2 100ug #AP72857-3 1mg

Description

Product Name	Recombinant Enterobacteria phage M13 Attachment protein G3P
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:19-424aaSequence Info:Full Length
Other Names	Gene 3 protein Short name: G3P Minor coat protein
Accession No.	P69168
Uniprot	P69168
Calculated MW	44.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	AETVESCLAKPHTENSFTNVWKKDKTLDRYANYEGCLWNATGVVVCTGDETQCYGTWVPIGLAIPENEGGG SEGGGSEGGGSEGGGKPPPEYGDTPIPGYTYINPLDGTYPGTEQNPANPNPSLEESQPLNTFMFQNNRFR NRQGALTVYTGTVTQGTDPVKTYQYTPVSSKAMYDAYWNGKFRDCAFHSGFNEDPFVCEYQGQSSDLPQ PPVNAGGGSGGGSGGGSEGGGSEGGGSEGGGSEGGGSEGGGSGGGSGGDFDYEKMANANKGAMTENADENA LQSDAKGKLDVATDYGAIDGFIGDVSLANGNGATGDFAGSNSQMAQVGDGDN SPLMNNFRQYLP SLPQ SVECRPFVFSAGKPYEFSIDCDKINLFRGVFAFLLYVATFMYVFSTFANILRNKES
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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.

References

"Filamentous phage infection: crystal structure of g3p in complex with its coreceptor, the C-terminal domain of TolA."Lubkowski J., Hennecke F., Plueckthun A., Wlodawer A.Structure 7:711-722(1999) Research Topic:Others

Note: This product is for in vitro research use only