

Recombinant Escherichia coli O6:H1 Cell division protein FtsZ(ftsZ)

Catalog No: #AP71139

Package Size: #AP71139-1 20ug #AP71139-2 100ug #AP71139-3 1mg

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Description

Product Name	Recombinant Escherichia coli O6:H1 Cell division protein FtsZ(ftsZ)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-383aaSequence Info:Full Length
Accession No.	P0A9A7
Calculated MW	56.3 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MFPEMELTNDIAVIVIGVGGGGGNAVEHMRERIEGVEFFAVNTDAQALRKTAVGQTIQIGSGITKGLGAGAN PEVGRNAADEDRDALRAALEGADMVFIAAGMGGGTGTGAAPVVAEVAKDLGILTVAVVTKPFNFEGKKRMAF AEQGITELSKHVDLITIPNDKLLKVLGRGISLLDAFGAANDVLKGAUVQGIALITRPLGLMNVDFADVRTVMSEM GYAMMGSGVASGEDRAEEAAEMAISPLLEDIDLSGARGVLVNITAGFDLRLDEFETVGNTIRAFASDNATVVI GTSLDPDMNDELRTVTVATGIGMDKRPEITLVNKNQVQPPVMDRYQQHGMAPLTQEQQPKVAKVVNDNAPQT AKEPDYLDIPAFLRKQAD
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

Essential cell division protein that forms a contractile ring structure (Z ring) at the future cell division site. The regulation of the ring assembly controls the timing and the location of cell division. One of the functions of the FtsZ ring is to recruit other cell division proteins to the septum to produce a new cell wall between the dividing cells. Binds GTP and shows GTPase activity.

References

Extensive mosaic structure revealed by the complete genome sequence of uropathogenic Escherichia coli.Welch R.A., Burland V., Plunkett G. III, Redford P., Roesch P., Rasko D., Buckles E.L., Liou S.-R., Boutin A., Hackett J., Stroud D., Mayhew G.F., Rose D.J., Zhou S., Schwartz D.C., Perna N.T., Mobley H.L.T., Donnenberg M.S., Blattner F.R.Proc. Natl. Acad. Sci. U.S.A. 99:17020-17024(2002)

Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.