

Recombinant Escherichia coli Holliday junction ATP-dependent DNA helicase RuvA(ruvA)

Catalog No: #AP71136

Package Size: #AP71136-1 20ug #AP71136-2 100ug #AP71136-3 1mg

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Description

Product Name	Recombinant Escherichia coli Holliday junction ATP-dependent DNA helicase RuvA(ruvA)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-203aaSequence Info:Full Length
Accession No.	P0A809
Calculated MW	38.1 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MIGRLRGIIEKQPPLVLIIEVGGVGYEVHMPMTCFYELPEAGQEAIVFTHFVVREDAQLLYGFNNKQERTLFKEL IKTNGVGPKLAILSGMSAQQFVNAVEREEVGALVKLPGIGKKAERLIVEMKDRFKGLHGDLFPAADLVLT SPASPATDDAEQEAVAALVALGYKPQEASRMVSKIARPDASSETLIREALRAAL
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

The RuvA-RuvB complex in the presence of ATP renatures cruciform structure in supercoiled DNA with palindromic sequence, indicating that it may promote strand exchange reactions in homologous recombination. RuvAB is a helicase that mediates the Holliday junction migration by localized denaturation and reannealing. RuvA stimulates, in the presence of DNA, the weak ATPase activity of RuvB. Binds both single- and double-stranded DNA (dsDNA). Binds preferentially to supercoiled rather than to relaxed dsDNA.

References

A dual function of the CRISPR-Cas system in bacterial antiviral immunity and DNA repair.Babu M., Beloglazova N., Flick R., Graham C., Skarina T., Nocek B., Gagarinova A., Pogoutse O., Brown G., Binkowski A., Phanse S., Joachimiak A., Koonin E.V., Savchenko A., Emili A., Greenblatt J., Edwards A.M., Yakunin A.F.Mol. Microbiol. 79:484-502(2011)Research Topic:Others

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