

Recombinant Rhodobacter sphaeroides Modification methylase RsrI(rsrIM)

Catalog No: #AP70986

Package Size: #AP70986-1 20ug #AP70986-2 100ug #AP70986-3 1mg

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Description

Product Name	Recombinant Rhodobacter sphaeroides Modification methylase RsrI(rsrIM)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-319aaSequence Info:Full Length
Other Names	Adenine-specific methyltransferase RsrI
Accession No.	P14751
Calculated MW	51.7 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MANRSHHNAGHRAMNALRKSGQKHSSSQLGSSEIGTTRHVYDVCDCLDTLAKLPDDSVQLICDPPYNIMLA DWDDHMDYIGWAKRWLAEAERVLSPTGSIAIFGGLQYQGEAGSGDLISIISHMRQNSKMLLANLIWNYPNGM SAQRFFANRHEEIAWFAKTKKYFFDLDAVREPYDEETKAAYMKDKRLNPESVEKGRNPTNVWRMSRLNGNS LERVGHTQKPAAVIERLVRALSHPGSTVLDFAGSGVTARVAIQEGRNSICTDAAPVFKEYYQKQLTFLQDD GLIDKARSYEIVEGAANFGAALQRGDVAS
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

This methylase recognizes the double-stranded sequence GAATTC, causes specific methylation on A-? on both strands, and protects the DNA from cleavage by the RsrI endonuclease.

References

Purification, cloning and sequence analysis of RsrI DNA methyltransferase lack of homology between two enzymes, RsrI and EcoRI, that methylate the same nucleotide in identical recognition sequences.Kaszubska W., Aiken C., O'Connor D., Gumpert R.I., Stephenson F.H., Greene P.J.Nucleic Acids Res. 17:10403-10425(1989)Research Topic:Others

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