Recombinant E.coli 30S ribosomal protein S19

Catalog No: #AP72028

Package Size: #AP72028-1 20ug #AP72028-2 100ug #AP72028-3 1mg

Orders: order@signalwayantibody.com
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Description

Product Name	Recombinant E.coli 30S ribosomal protein S19
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-92aaSequence Info:Full Length
Accession No.	P0A7U3
Uniprot	P0A7U3
GeneID	34152300;947811;
Calculated MW	14.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	PRSLKKGPFIDLHLLKKVEKAVESGDKKPLRTWSRRSTIFPNMIGLTIAVHNGRQHVPVFVTDEMVGHKLGEFAPTRTYRGHAADKKAKKK
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

In the E.coli 70S ribosome in the initiation state it has been modeled to contact the 23S rRNA of the 50S subunit forming part of bridge B1a; this bridge is broken in the model with bound EF-G. The 23S rRNA contact site in bridge B1a is modeled to differ in different ribosomal states , contacting alternately S13 or S19. In the 3.5 angstroms resolved ribosome structures the contacts between L5, S13 and S19 bridge B1b are different, confirming the dynamic nature of this interaction. Bridge B1a is not visible in the crystallized ribosomes due to 23S rRNA disorder.

References

Structures of the bacterial ribosome at 3.5 A resolution.Schuwirth B.S., Borovinskaya M.A., Hau C.W., Zhang W., Vila-Sanjurjo A., Holton J.M., Cate J.H.D.Science 310:827-834(2005)Research Topic:Others

Note: This product is for in vitro research use only