

30S ribosomal protein S15 Protein, E. coli, Recombinant (His)

General Information

Synonyms:	secC;30S ribosomal protein S15;rpsO;Small ribosomal subunit protein uS15
Protein Construction:	2-89 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	P0ADZ4
Molecular Weight:	14.1 kDa (predicted)
AA Sequence:	SLSTEATAKIVSEFGRDANDTGSTEVQVALLTAQINHLQGHFAEHKKDHHSRRGLLRMVSQRRKLLDYLRK DVARYTQLIERLGLRR

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

One of the primary rRNA binding proteins, it binds directly to 16S rRNA where it helps nucleate assembly of the platform of the 30S subunit by binding and bridging several RNA helices of the 16S rRNA. Binds to its own mRNA, stabilizing it 5-UTR and preventing its translation.; In the E.coli 70S ribosome it has been modeled to contact the 23S rRNA of the 50S subunit forming part of bridge B4. In the two 3.5 Å resolved ribosome structures there are minor differences between side-chain conformations.

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