

50S ribosomal protein L22, Anaplasma phagocytophilum, Recombinant (His & Myc)

General Information

Synonyms:	Large ribosomal subunit protein uL22;rplV;50S ribosomal protein L22
Protein Construction:	1-112 aa
Species:	Anaplasma phagocytophilum
Expression Host:	E. coli
Accession:	Q2GL54
Molecular Weight:	17.2 kDa (predicted)
AA Sequence:	MSIVIAAKGLRSTPAKLNLVADLIRGKDVAVAAMYLKFKCKKAALLIDKVLKSAIANARANYGVDADNLYV KEVLVGKAFTLRRVQPRARGRACRISKRYGSVVVKLLER

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

This protein binds specifically to 23S rRNA; its binding is stimulated by other ribosomal proteins, e.g. L4, L17, and L20. It is important during the early stages of 50S assembly. It makes multiple contacts with different domains of the 23S rRNA in the assembled 50S subunit and ribosome.; The globular domain of the protein is located near the polypeptide exit tunnel on the outside of the subunit, while an extended beta-hairpin is found that lines the wall of the exit tunnel in the center of the 70S ribosome.

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