

BtuD Protein, Halobacterium salinarum, Recombinant

General Information

Synonyms: Vitamin B12-transporting ATPase; Cobalamin import ATP-binding protein BtuD; btuD

Protein Construction: 1-398 aa

Species: Halobacterium salinarum

Expression Host: E. coli

Accession: B0R5G4

Molecular Weight: 40.5 kDa (predicted)

AA Sequence:

```
MTLDVTGLDVELAGTRILDDVHASIRDGHLVGVVGPNGAGKSTLLRAMNGLITPTAGTVLVAGDDVHALSSA
AASRRRIATVPQDASVSFEFTVRQVEMGRHPHTTRFGTDTDTAVVDRAMARTGVAQFAARDVTSLSGGERQ
RVLLARALQAAPVLLLDEPTASLDVNHQIRTLEVVRDLADSEDRAVVAAIHDLDLAARYCDELVVVADGRV
HDAGAPRSVLTPTDITIRAAFDARVAVGTDPATGAVTVTLPDRTSAAADTSVHVGGGDSATPVVRRLLVSAGA
SVSVGPVVEGDTDHETARRVGCPCTSVAPFTRLEDTTAASATRADIAAADVIAVPVAAAARPGVRGLLTGAVP
TLAVGDAAGAPEWADRLVACDAVVSAVGALADTPSDGV
```

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: > 85% 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

Required for corrinoid utilization. Probably part of the ABC transporter complex BtuCDF involved in cobalamin (vitamin B12) import. Probably responsible for energy coupling to the transport system.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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