

## BtuD Protein, Halobacterium salinarum, Recombinant (His)

### 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: 44.9 kDa (predicted)

AA Sequence:

```
MTLDVTGLDVELAGTRILDDVHASIRDGHLVGVVGPNGAGKSTLLRAMNGLITPTAGTVLVAGDDVHALSSA
AASRRRIATVPQDASVSFEFTVRQVEMGRHPHTTRFGTDTDTAVVDRAMARTGVAQFAARDVTSLSGGERQ
RVLLARALAAAPVLLLDEPTASLDVNHQIRTLEVVRDLADSEDRAVVAAIHDLDLAARYCDELVVVADGRV
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.

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