

## BtuC Protein, Halobacterium salinarum (Cell-Free, strain ATCC 29341 / DSM 671 / R1) (Cell-Free, His)

<b>Cat. No.:</b>	HY-P702226
<b>Synonyms:</b>	Cobalamin import system permease protein BtuC
<b>Species:</b>	Others
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	B0R5G3 (M1-L369)
<b>Gene ID:</b>	68694103
<b>Molecular Weight:</b>	40.3 kDa

### PROPERTIES

#### AA Sequence

M R E A S A R A V A	W S A A A G V L L V	A V L L V S A T I G	P E P I T L R T V A
M A A L T E L A V P	V G A S V T M H T H	A V P V V S G G L P	W P A L T I A Y A A
P L Q F G V P E T A	Q V I V G T I R L P	R I V L G A T V G A	S L A I S G A V L Q
G F F R N P M A D P	S I V G V S S G A A	V G A V A A I T L P	S V V V I G V Q P A
A F A G A L I A A F	T V Y A I A T K N G	H T P T A T L L L S	G V A V Q T L L G A
V T S F L V V N S G	R E I R P A M Y W L	M G T L H G S R W H	D V E A A L P V V V
V G S A V L L A Y A	R E M N V L L A G E	E D A H T L G V D V	D R T K R L L L A V
A S V V T A A A V S	F A G A I G F V G L	I V P H A V R L V V	G P D H R V L L P V
S A L T G G A F L V	A A D T V A R A T A	T E P P V G I I T A	L I G A P F F L Y L
L R D R E V R A L			

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

BtuC is an essential component for corrinoid utilization, likely serving as part of the ABC transporter complex BtuCDF responsible for cobalamin (vitamin B12) import. It is anticipated to play a crucial role in the translocation of the substrate across the membrane (By similarity). The complete complex comprises two ATP-binding proteins (BtuD), two transmembrane proteins (BtuC), and a solute-binding protein (BtuF), collectively contributing to the efficient import of cobalamin into the cell.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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