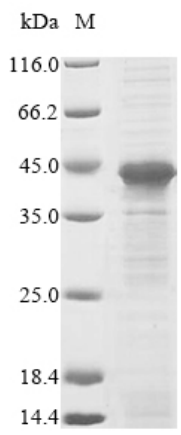


## Recombinant *Bacillus subtilis* Penicillin-binding protein 4(pbpD),partial

Catalog Number: RPC20530

<b>Product Name</b>	Recombinant <i>Bacillus subtilis</i> Penicillin-binding protein 4(pbpD),partial
<b>Catalog Number</b>	RPC20530
<b>Expression host</b>	<i>E.coli</i>
<b>Product Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Storage Buffer</b>	10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Relevance</b>	(GlcNAc-(1->4)-Mur2Ac(oyl-L-Ala-gamma-D-Glu-L-Lys-D-Ala-D-Ala))(n)-diphosphoundecaprenol + GlcNAc-(1->4)-Mur2Ac(oyl-L-Ala-gamma-D-Glu-L-Lys-D-Ala-D-Ala)-diphosphoundecaprenol = (GlcNAc-(1->4)-Mur2Ac(oyl-L-Ala-gamma-D-Glu-L-Lys-D-Ala-D-Ala))(n+1)-diphosphoundecaprenol + undecaprenyl diphosphate.
<b>AA sequence</b>	PNNPTLYDPLKHFYTKSRQERLLKGLKDAGVITDKELKKAVKQKIKLD VEKREDKYPDYVSYVNDEFTQLVSESEGFDRKRLQKASGKQKEKIENELS ARVSTLMKDGVKIYTALDPYMQNQVVAQMNSKLPYADVQGGAAVIN HQTHQIIALSGGKNYQKYDFNRA YQAYRQPGSSIKPLLDYGPYIEQTGA TTSSTIDASKFCSKDYCPQNYNNRRTYGTVTLDTAFKNSYNTPAIR
<b>References</b>	"Regulation of cell wall morphogenesis in <i>Bacillus subtilis</i> by recruitment of PBP1 to the MreB helix." <a href="#">Kawai Y., Daniel R.A., Errington J. Mol. Microbiol. 71:1131-1144(2009)</a>

## Certificate of Analysis

<b>Product Name</b>	Recombinant Bacillus subtilis Penicillin-binding protein 4(pbpD),partial	
<b>Catalog Number</b>	RPC20530	
<b>Expression host</b>	<i>E.coli</i>	
<b>Product Info</b>	N-terminal 6xHis-SUMO-tagged	
<b>Storage Buffer</b>	10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol	
<b>Batch Number</b>	03712	
<b>Nature</b>	Bacillus subtilis pbpD-(AA 213-450)- <b>P40750</b> -Partial Protein	
<b>Purification</b>	Affinity purified using IMAC	
<b>Recommended Storage</b>	Short term	2 to 8 °C, one week from the date of receipt
	Long term	-20 to -80 °C, six months from the date of receipt
<b>Form</b>	Liquid	
<b>Date of detection</b>	2018.02.22	
<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>Appearance</b>	Clear Solution	pass
<b>Concentration</b>	0.1-5 mg/ml, by the Bradford Method.	0.5 mg/ml
<b>Purity</b>	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.	
<b>Molecular Weight</b>	Predicted band size: 43.0 kDa	

<b>Electrophoretic parameters</b>	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
<b>Aseptic Processing</b>	Not done
<b>Endotoxin Level</b>	Untreated
<b>Activity</b>	Not tested
<b>Conclusion</b>	pass