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LpxT Peptide

Catalog # ASC12242

Product Information

Application	BL
Primary Accession	P76445
Clone Names	lpxT
Calculated MW	26759
Concentration (mg/ml)	200 ug/mL
Application Notes	The peptide is used for blocking the activity of the LpxT antibody.

Additional Information

Gene ID	75172303;946693
Alias Symbol	lpxT
Other Names	Lipid A 1-diphosphate synthase, Kdo(2)-lipid A phosphotransferase, Undecaprenyl pyrophosphate:lipid A 1-phosphate phosphotransferase, Eck2168, yeiU
Reconstitution & Storage	Store LpxT peptide at -20˚C, stable for one year.
Precautions	LpxT Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	lpxT {ECO:0000255|HAMAP-Rule:MF_01945, ECO:0000303|PubMed:18047581}
Function	Involved in the modification of the lipid A domain of lipopolysaccharides (LPS). Transfers a phosphate group from undecaprenyl pyrophosphate (C55-PP) to lipid A to form lipid A 1- diphosphate. Contributes to the recycling of undecaprenyl phosphate (C55-P) (PubMed:18047581). In vitro, has low undecaprenyl-diphosphate phosphatase activity (PubMed:17660416).
Cellular Location	Cell inner membrane {ECO:0000255|HAMAP- Rule:MF_01945, ECO:0000269|PubMed:15919996, ECO:0000269|PubMed:17660416}; Multi-pass membrane protein {ECO:0000255|HAMAP-Rule:MF_01945, ECO:0000269|PubMed:17660416} Note=Transferase activity takes place on the periplamic side of the inner membrane. {ECO:0000255|HAMAP-Rule:MF_01945, ECO:0000269|PubMed:18047581}

References

LpxT is involved in the modification of the lipid A domain of lipopolysaccharides (LPS) and transfers a

phosphate group from undecaprenyl pyrophosphate (C55-PP) to lipid A to form lipid A 1-diphosphate as well as contributes to the recycling of undecaprenyl phosphate (C55-P). In vitro, it has low undecaprenyl-diphosphate phosphatase activity.Touze, et al. Mol Microbiol. 2008; 67(2): 267-77.Tatar, et al. Microbiology 2007; 153(Pt8): 2518-2529.