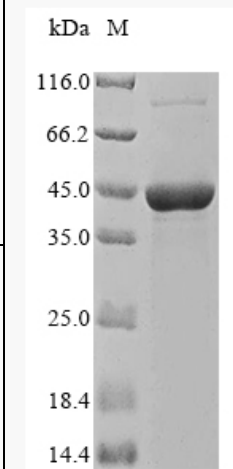


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Datasheet

Product Name	Recombinant Klebsiella oxytoca Carbapenem-hydrolyzing beta-lactamase KPC(bla)
Catalog Number	AAA18777
Expression host	<i>E.coli</i>
Product Info	N-terminal 6xHis-SUMO-tagged
Storage Buffer	0.2 µm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Relevance	Hydrolyzes carbapenems, penicillins, cephalosporins and aztreonam with varying efficiency
AA sequence	LTNLVAEPFAKLEQDFGGSIGVYAMDTGSGATVSYRAEERFPLCSSFKGFLAA AVLARSQQQAGLLDTPIRYGKNALVPWSPISEKYLTGTGMTVAELSAAAVQYS DNAAANLLLKELGGPAGLTAFMRSIGDTTFRLDRWELELNSAIPGDARDTSSP RAVTESLQKLTLGSAALAAPQRQQFVDWLKGNTTGNHRIRAAVPADWAVGDK TGTCGVYGTANDYAVVWPTGRAPIVLAVYTRAPNKDDKHSEAVIAAAARLA LEGLGVNGQ
References	"Phenylboronic Acid Derivatives as Validated Leads Active in Clinical Strains Overexpressing KPC-2: A Step against Bacterial Resistance." Celenza G., Vicario M., Bellio P., Linciano P., Perilli M., Oliver A., Blazquez J., Cendron L., Tondi D. ChemMedChem 13:713-724(2018)

Certificate of Analysis

Product Name	Recombinant Klebsiella oxytoca Carbapenem-hydrolyzing beta-lactamase KPC(bla)		
Catalog Number	AAA18777		
Expression host	E.coli		
Product Info	N-terminal 6xHis-SUMO-tagged		
Buffer	0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol		
Batch Number	03429		
Nature	Klebsiella oxytoca bla-(AA 25-293)- Q848S6 -Full Length of Mature Protein		
Purification	Affinity purified using IMAC		
Recommended Storage	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	
Form	Liquid		
Date of detection	2022.02.08		
Test Items	Specifications		Results
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		3.5 mg/ml
Purity	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 44.5 kDa		Observed band size: 45 kDa

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Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	
Aseptic Processing	0.2 µm sterile filtered	
Endotoxin Level	<1.0 EU per 1µg of the protein by the LAL method.	pass
Activity	Not tested	
Conclusion	pass	