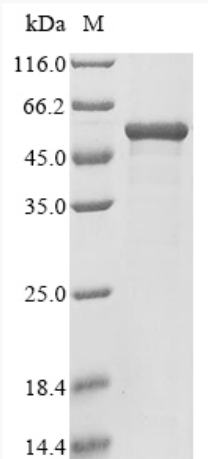


# for research use only

## Certificate of Analysis

Product Name	Recombinant Porphyromonas gingivalis Lys-gingipain(kgp) ,partial		
Catalog Number	AAA18541		
Expression host	E.coli		
Product Info	N-terminal 6xHis-SUMO-tagged		
Buffer	Lyophilized from 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0. The volume before lyophilization is 100μl/vial.		
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.		
Batch Number	DA04399b1g0		
Nature	Porphyromonas gingivalis kgp-(AA 229-594)- <b>B2RLK2</b> -Partial 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, twelve months from the date of receipt	
Form	Lyophilized powder		
Date of detection	2024.08.22		
Test Items	Specifications		Results
Purity	≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 53.6 kDa		Observed band size: 57 kDa

*for research use only*

<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

# *for research use only*

## Datasheet

<b>Product Name</b>	Recombinant Porphyromonas gingivalis Lys-gingipain(kgp) ,partial
<b>Catalog Number</b>	AAA18541
<b>Expression host</b>	<i>E.coli</i>
<b>Product Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Buffer</b>	Lyophilized from 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0. The volume before lyophilization is 100µl/vial.
<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>	Cysteine proteinase with a strong preference for substrates with Lys in the P1 position. Hydrolyzes bovine hemoglobin, bovine serum albumin, casein, human placental type I collagen and human IgA and IgG. Disrupts the functions of polymorphonuclear leukocytes. May act as a virulence factor in the development of periodontal disease. Involved in the coaggregation of P.gingivalis with other oral bacteria.
<b>AA sequence</b>	DVYTDHGDLYNTPVRMLVVAGAKFKEALKPWLTWKAQKGFYLDVHYTDEAEVGTTNASIKAFIHKKYNDGL AASAAPVFLALVGDTDVISGEKGKTKKVTDLYYSAVDGDYFPEMYTFRMSASSPEELTNIIDKVLMEYKATMP DKSYLEKALLIAGADSYWNPKIGQQTIKYAVQYYNQDHGYTDVYSYPKAPYTGCSYHLNTGVGFANYTAHG SETSWADPSLTATQVKALTNKDKYFLAIGNCCVTAQFDYPQPCFGEVMTRVKEKGAYAYIGSSPNSYWGEDI YWSVGANAVFGVQPTFEGTSMGSYDATFLEDSYNTVNSIMWAGNLAATHAGNIGNITHIGAHYYWEAYHV LGDGSVM
<b>References</b>	"Determination of the genome sequence of Porphyromonas gingivalis strain ATCC 33277 and genomic comparison with strain W83 revealed extensive genome rearrangements in P. gingivalis." Naito M., Hirakawa H., Yamashita A., Ohara N., Shoji M., Yukitake H., Nakayama K., Toh H., Yoshimura F., Kuhara S., Hattori M., Hayashi T., Nakayama K. DNA Res. 15:215-225(2008)