

Recombinant Porphyromonas gingivalis
Lys-gingipain(kgp),partial

Catalog No: #AP73865

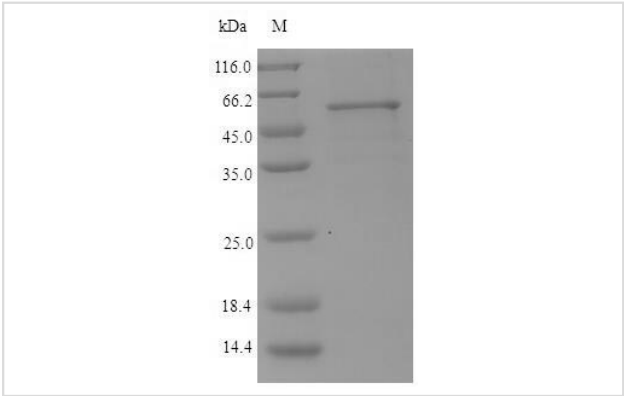
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Package Size: #AP73865-1 20ug #AP73865-2 100ug #AP73865-3 1mg

Description

Product Name	Recombinant Porphyromonas gingivalis Lys-gingipain(kgp),partial
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:229-594aaSequence Info:Partial
Other Names	Lysine-specific cysteine proteinase Kgp
Accession No.	B2RLK2
Uniprot	B2RLK2
GeneID	29256891;
Calculated MW	56.6 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	DVYTDHGDLYNTPVRMLVVAGAKFKEALKPWLTWKAQKGFYLDVHYTDEAEVGTTNASIKAFIHKKYNDGLAA SAAPVFLALVGDTDISGEKGKTKKVTDLYYSAVDGDYFPEMYTFRMSASSPEELTNIIDKVLMEKATMPDK SYLEKALLIAGADSYWNPKIGQQTIKYAVQYYNQDHGYTDVYSYPKAPYTGCSYHLNTGVGFANYTAHGSET SWADPSLTATQVKALTNKDKYFLAIGNCCVTAQFDYPQPCFGEVMTRVKEKGAYAYIGSSPNSYWGEDYYW SVGANAVFGVQPTFEGTSMGSYDATFLEDSYNTVNSIMWAGNLAATHAGNIGNITHIGAHYYWEAYHVLGDG SVM
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Images



Background

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.

References

"Biochemical and functional properties of lysine-specific cysteine proteinase (Lys-gingipain) as a virulence factor of *Porphyromonas gingivalis* in periodontal disease." Abe N., Kadowaki T., Okamoto K., Nakayama K., Ohishi M., Yamamoto K.J. *Biochem.* 123:305-312(1998) Research Topic: Others

Note: This product is for in vitro research use only