

Recombinant Porphyromonas Gingivalis KGP Protein (229-594 aa), His-SUMO-tagged

Cat. No. KGP-1889P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Porphyromonas Gingivalis (strain ATCC 33277/DSM 20709/JCM 12257) KGP Protein (229-594 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Partial.
Species	Porphyromonas Gingivalis
Source	E.coli
ProteinLength	229-594 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	56.6 kDa
AA Sequence	DVYTDHGDLYNTPVRMLVVAGAKFKEALKPWLTWKAQKGFYLDVHYTDEAEVGT T NASIKAFIHKKYNDGLAASAAPVFLALVGDTDVISGEKGKTKKVTDLYYSAVDGDYF PEMYTFRMSASSPEELTNIIDKVLMEKATMPDKSYLEKALLIAGADSYWNPKIGQQT

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IKYAVQYYYNQDHGYTDVYSYPKAPYTGCSYSHLNTGVGFANYTAHGSETSWADPSL
TATQVKALTNKDKYFLAIGNCCVTAQFDYPQPCFGEVMTRVKEKGAYAYIGSSPNSY
WGEDYYWSVGANAVFGVQPTFEGTSMGSYDATFLEDSYNTVNSIMWAGNLAATHA
GNIGNITHIGAHYYWEAYHVLGDGSVM

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

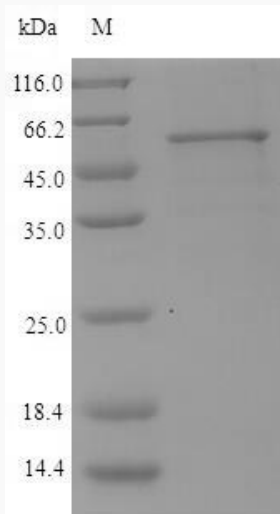
Synonyms kgp; Lysine-specific cysteine proteinase Kgp;

UniProt ID [B2RLK2](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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