

Lys-gingipain Protein, Porphyromonas gingivalis, Recombinant (His & SUMO)

General Information

Synonyms: kgp;Lysine-specific cysteine proteinase Kgp;Lys-gingipain

Protein Construction: 229-594 aa

Species: Porphyromonas gingivalis

Expression Host: E. coli

Accession: B2RLK2

Molecular Weight: 56.6 kDa (predicted)

AA Sequence:

DVYTDHGDLYNTPVRMLVVAGAKFKEALKPWLWKAQKGFYLDVHYTDEAEVGTTNASIKAFIHKKYNDGL
AASAAPVFLALVGD TDVISGEKGGKTKKVTDLYYSAVDGDYFPEMYTFRMSASSPEELTNIIDKVLMEYKATM
PDKSYLEKALLIAGADSYWNP KIGQQTIKYAVQYYYNQDHGYTDVYSYPKAPYTGCSYHLNTGVGFANYTAH
GSETSWADPSLTATQVKALTNKDKYFLAIGNCCVTAQFDYPQPCFGEVMTRVKEKGAYAYIGSSPNSYWGED
YYWSVGANAVFGVQPTFEGTSMGSYDATFLEDSYNTVNSIMWAGNLAATHAGNIGNITHIGAHYYWEAYHV
LGDGSVM

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris/PBS-based buffer

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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