

Gingipain R1 Protein, Porphyromonas gingivalis, Recombinant (His)

General Information

Synonyms: rgpA;Gingipain 1;rgp1;Arg-gingipain;RGP-1;Gingipain R1

Protein Construction: 228-720 aa

Species: Porphyromonas gingivalis

Expression Host: P. pastoris (Yeast)

Accession: P28784

Molecular Weight: 56.0 kDa (predicted)

AA Sequence: YTPVEEKQNGRMIVIVAKKYEGDIKDFVDWKNQRGLRTEVKVAEDIASPV TANAIQQFVKQEYEKEGNDLTYV
LLVGDHKDIPAKITPGIKSDQVYGQIVGNDHYNEVFIGRFSCESKEDLKTQIDRTIHYERNITTEDKWLGQALCI
ASAEGGPSADNGESDIQHENVIANLLTQYGYTKIIKCYDPGVTPKNIIDAFNGGISLVNYTGHGSETAWGTSHF
GTTHVKQLTNSNQLPFIFDVACVNGDFLFSMPCF AEALMRAQKDGKPTGTVAIIASTINQSWASPMRGQDEM
NEILCEKHPNNIKRTFGGVTMNGMFAMVEKYKKDGEKMLDWTVFGDPSLLVRTLVPTKMQVTAPAQINLTD
ASVNVSCDYNGAIATISANGKMFSGSAVVENGTATINLTGLTNESTLTLTVVGYNKETVIKTINTNGEPNPYQPV
SNLTATTQGGQVTLKWDAPSTKTNATTNTARSVDGIRELVLLSVSDAPELLRS

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

Thiol protease. Acts synergistically with RgpB to catalyze the maturation of fimbrial subunits, such as FimA. Its proteolytic activity is a major factor in both periodontal tissue destruction and in evasion of host defense mechanisms (Probable).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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