

Gingipain R2 Protein, Porphyromonas gingivalis, Recombinant (His)

General Information

Synonyms: rgp2;Gingipain R2;RGP-2;Gingipain 2;Arg-gingipain;prtRII;rgpB

Protein Construction: 230-736 aa

Species: Porphyromonas gingivalis

Expression Host: E. coli

Accession: P95493

Molecular Weight: 57.1 kDa (predicted)

AA Sequence: YTPVEEKENGRMIVIVPKKYEEDIEDFVDWKNQRGLRTEVKVAEDIASPV TANAIQQFVKQEYEKEGNDLTYVL
LVGDHKDIPAKITPGIKSDQVYGVQVGNVDHYNEVFIGRFSCEKEDLKTQIDRTIHYERNITTEDKWLGLQALCIA
SAEGGPSADNGESDIQHENIIANLLTQYGYTKIICYPGVTGPKNIIDAFNGGISLANYTGHGSETAWGTSHFG
TTHVKQLTNSNQLPFIFDVACVNGDFLYNVPCFAEALMRAQKDGKPTGTVAIIASTINQSWASPMRGQDEM
NEILCEKHPNNIKRTFGGVTMNGMFAMVEKYKKDGEKMLDWTVFGDPSLLVRTLVP TKMQVTAPANISASA
QTFEVACDYNGAIATLSDDGDMVGTAVKDKGKAIKLNESIADETNLTLTVVGYNKVTVIKDVKVEGTSIADVA
NDKPYTVAVSGKTITVESPAAGLTIFDMNGRRVATAKNRMVFEAQNGVYAVRIATEGKTYTEKVIK

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: > 85% as determined by SDS-PAGE.

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

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

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

Thiol protease. Acts synergistically with RgpA 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.

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