

Gingipain R1 Protein, Porphyromonas gingivalis, Recombinant (B2M & His)

General Information

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

Protein Construction: 228-720 aa

Species: Porphyromonas gingivalis

Expression Host: E. coli

Accession: P28784

Molecular Weight: 68.0 kDa (predicted)

AA Sequence: YTPVEEKQNGRMIVIVAKKYEGDIKDFVDWKNQRGLRTEVKVAEDIASPV TANAIQQFVKQEYEKEGNDLTYV
LLVGDHKDIPAKITPGIKSDQVYGQIVGN DHYNEVFIGRFSCESKEDLKTQIDRTIHYERNITTEDKWL GQALCI
ASAEGGPSADNGESDIQHENVIANLLTQYGYTKIIKCYDPGVTPKNIIDAFNGGISLVNYTGHGSETAWGTS HF
GTTHVKQLTNSNQLPFIFDVACVNGDFLFSMPCF AEALMRAQKDGKPTGTVAIIASTINQSWASPMRGQDEM
NEILCEKHPNNIKRTFGGVTMNGMFAMVEKYKKDGEKMLDWTVFGDPSLLVRTLVPTKMQVTAPAQINLTD
ASVNVSCDYNGAIATISANGKMF GSAVVENGTATINLTGLTNESTLTLTVVGYNKETVIKTINTNGEPNPYQPV
SNLTATTQGGQKVT LKWDAPSTKTNATTNTARSVDGIRELVLLSVSDAPELLRS

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-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481