

PAD Protein, Porphyromonas gingivalis, Recombinant (His)

General Information

Synonyms: Peptidylarginine deiminase

Protein Construction: 44-556 aa

Species: Porphyromonas gingivalis

Expression Host: E. coli

Accession: Q9RQJ2

Molecular Weight: 60.9 kDa (predicted)

AA Sequence: AFQETNPPAGPVRAIAEYERSAAVLVRYPFGIPMELIKELAKNDKVITIVASESQKNTVITQYTQSGVNLNSCDF
IIAKTDSYWTRDYTGWFAMYDTNKVGLVDFIYNRPRPNDDPEPKYEAQYLGIEFMGMKLKQTGGNYMTDGY
GSAVQSHIAYTENSLSQAQVNQKMKDYLGITHHDVVQDPNGEYINHVDCWGKYLAPNKILIRKVPDNHPQ
HQALEDMAAYFAAQTCAWGTYEVYRALATNEQPYTNSLILNRRVFPVNGPASVDNDALNVYKTAMPGY
EIIGVKGASGTPWLGTDALHCRTHEVADKGYLYIKHYPIGEQAGPDYKIEADVSCANATISPVQCYRINGS
GSFKAADTMESTGHYYSFTGLNKNDKVEYYISAADNSGRKETYPIGEPDPFKFTCMNETNTCTVTGAAK
ALRAWFNAGRSELAVSVSLNIAGTYRIKLYNTAGEEVAAMTKELVAGTSVFSMDVYSQAPGTYYLVVEGNGIR
ETMKILK

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

Deiminates the guanidino group of C-terminal arginine residues on a variety of peptides, including the vasoregulatory peptide-hormone bradykinin, to yield ammonia and a citrulline residue. May promote the growth of the pathogen in the periodontal pocket by producing ammonia, ammonia having a protective effect during acidic cleaning cycles in the mouth.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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