

## MGAM Protein, Human, Recombinant (aa 960-1853, His)

## General Information

Synonyms: Alpha-1,4-glucosidase;Maltase-glucoamylase;MGA;MGAML;MGAM

Protein Construction: 960-1853 aa

Species: Human

Expression Host: Baculovirus Insect Cells

Accession: O43451

Molecular Weight: 103.1 kDa (predicted)

AA Sequence: DEEKIDCYPDENGASAENCTARGCIWEASNSSGVPFCYFVNDLYSVDVQYNSHGATADISLKSSVYANAFP  
STPVNPLRLDVTYHKNEMLQFKIYDPNKNRYEVPVPLNIPSPSSSTPEGQLYDVLIKKNPFGIEIRRKSTGTIIW  
DSQLLGFTFSDMFIRISTRPSKYLYGFGETEHRSYRRDLEWHTWGMFSDQPPGYKKNSYGVHPYYMGLLE  
DGSAGHVVLLNSNAMDVTFQPLPALTYRTTGGVLDYFVFLGPTPELVTTQYTELIGRPVMVPYWSLGFQLCRY  
GYQNDSEIASLYDEMVAQIPYDVQYSDIDYMERQLDFTLSPKFAGFPALINRMKADGMRVILILDPAISGNET  
QPYPAFTRGVEDDVFIKYPNDGDIVWGKVPDFPDVVVNGSLDWDSQVELYRAYVAFPDFFRNSTAKWWK  
REIEELYNPNQNPERSLKFQDGMWIDMNEPSSFVNGAVSPGCRDASLNHPPYMPHLESRDRGLSSKTLKME  
QQILPDGSLVQHYNVHNLYGWSQTRPTYEAVQEVTTGQRGVVITRSTFPSSGRWAGHWLGDNTAAWDQLKK  
SIIGMMEFSLFGISYTGADICGFFQDAEYEMCVRWMLGAFYFYSRNHNTIGTRRQDPVSWDVAFVNISRTVL  
QTRYTLPLPYLTMHKAHTEGVTVVRPLLHEFVSDQVTWDIDSQFLLGPAFLVSPVLERNARNVTAYFPRARW  
YDYTTGVDINARGEWKTLPAPLDHINLHVRGGYILPWQEPALNTHLSRQKFMGFKIALDDEGTAGGWLFWD  
DGQSIDTYGKGLYYLASFSASQNTMQSHIIFNNYITGTNPLKLGYIEIWGVGVSVPVTSVSVSGMVITPSFNND  
PTTQVLSIDVTDRNISLHNFTSLTW

## 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: 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 &amp; 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.

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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.

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### Protein Background

May serve as an alternate pathway for starch digestion when luminal alpha-amylase activity is reduced because of immaturity or malnutrition. May play a unique role in the digestion of malted dietary oligosaccharides used in food manufacturing.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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