

Ameloblastin Protein, Human, Recombinant (His)

General Information

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|-----------------------|--------------------------------|
| Synonyms: | AMBN;Ameloblastin |
| Protein Construction: | Val27-Pro447 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | AAI06932.1 |
| Molecular Weight: | 60-80 KDa (reducing condition) |
| AA Sequence: | Val27-Pro447 |

QC Testing

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|----------------------|---|
| 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. |
| Endotoxin: | < 0.1 ng/μg (1 EU/μg) as determined by LAL test. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled 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

Ameloblastin (AMBN) is a member of the Ameloblastin family. AMBN is a secreted protein and is specially expressed in ameloblast, localizing to the Tomes processes of secretory ameloblasts and in the sheath space between rod-interrod enamel. Mutations of this protein may be associated with dentinogenesis imperfect and autosomal dominant amylogenesis imperfect. Ameloblastin may play an important role in the formation and mineralization of the enamel matrix. Biochemically, it is classified as an intrinsically disordered protein (IDP). Its biological role remains largely unknown.

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