



Recombinant Protein Technical Manual  
Recombinant Human Ameloblastin/AMBN Protein  
(His Tag)  
RPES2418

### Product Data:

**Product SKU:** RPES2418

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9NP70

### Protein Information:

**Molecular Mass:** 46.4 kDa

**AP Molecular Mass:** 66 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Ameloblastin; AMBN

## Immunogen Information:

**Sequence:** Val27-Pro447

## 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 amelogenesis 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.