

## Product datasheet for **AR50653PU-S**

### Amelotin (17-209, His-tag) Human Protein

#### Product data:

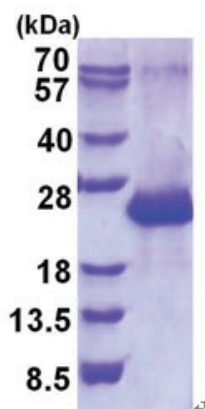
Product Type:	Recombinant Proteins
Description:	Amelotin (17-209, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSLPQLKPA LGLPPTKLAP DQGTLPNQQQ SNQVFPSSL IPLTQMLTLG PDLHLLNPAA GMTPTGTQTHP LTLGGLNVQQ QLHPHVLPIF VTQLGAQGTI LSSEELPQIF TSLIIHSLFP GGILPTSQAG ANPDVQDGS L PGGAGVNPA TQGTAPAGRLP TPSGTDDDFV VTPPAGIQRS THAIEEATTE SANGIQ
Tag:	His-tag
Predicted MW:	22.2 kDa
Concentration:	lot specific
Purity:	>90 % by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 2 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human AMTN protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001273660</a>
Locus ID:	401138
UniProt ID:	<a href="#">Q6UX39</a>
Cytogenetics:	4q13.3
Synonyms:	AI3B; UNQ689



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**Summary:**

The mineralized portions of teeth, the dentin and enamel, are formed by mesenchyme-derived odontoblasts and epithelium-derived ameloblasts, respectively. As ameloblasts differentiate, they deposit specific proteins necessary for enamel formation, including amelogenin (AMELX; MIM 300391), enamelin (ENAM; MIM 606585), and ameloblastin (AMBN; MIM 601259), in the organic enamel matrix. Amelotin is specifically expressed in maturation-stage ameloblasts (Iwasaki et al., 2005 [PubMed 16304441]).[supplied by OMIM, Mar 2008]

**Product images:**

15% SDS-PAGE (3ug)