

Recombinant Human AMTN, GST-tagged

Cat. No. AMTN-9627H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AMTN protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-209a.a.
Description	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])
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	AMTN amelotin [Homo sapiens]
Official Symbol	AMTN
Synonyms	Amelotin; Amtn; AMTN_HUMAN; RSTI689; UNQ689;
Gene ID	401138
mRNA Refseq	NM_212557.2
Protein Refseq	NP_997722.1
MIM	610912
UniProt ID	Q6UX39
Chromosome Location	4q13.3
Function	molecular_function