

# Recombinant Human Alpha-1-Microglobulin/Bikunin Precursor, His-tagged

**Cat. No.** AMBP-6894H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human AMBP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 23.1 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	20-203aa
<b>Description</b>	AMBP is an immunomodulatory protein with a broad spectrum of possible clinical applications and seems a promising marker for evaluation of tubular function. AMBP specifically interacts with the ORF3 protein of hepatitis E virus and has a direct role in enhancing alpha-1 microglobulin export from the hepatocyte.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.
<b>Molecular Mass</b>	23.1 kDa (205aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGPVPTPPDN IQVQENFNIS RIYGKWYNLA IGSTCPWLKK IMDRMTVSTL VLGEGATEAE ISMTSTRWRK GVCEETSGAY EKTDTDGKFL YHKS KWNITM ESYVVHTNYD EYAIFLTCKF SRHHGPTITA KLYGRAPQLR ETLQDFRVV AQQVGIPEDS IFTMADRGEV VPGEQEPEPI LIPRV

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<b>Purity</b>	>90% by SDS-PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	AMBP alpha-1-microglobulin/bikunin precursor [ Homo sapiens ]
<b>Official Symbol</b>	AMBP
<b>Synonyms</b>	AMBP; alpha-1-microglobulin/bikunin precursor; ITI, ITIL; protein AMBP; bikunin; complex forming glycoprotein heterogeneous in charge; EDC1; growth inhibiting protein 19; HCP; HI30; IATIL; inter alpha trypsin inhibitor light chain; ITILC; protein HC; trypstatin; uristatin; uronic acid rich protein; UTI; uronic-acid-rich protein; growth-inhibiting protein 19; inter-alpha-trypsin inhibitor light chain; complex-forming glycoprotein heterogeneous in charge; A1M; ITI; ITIL;
<b>Gene ID</b>	259
<b>mRNA Refseq</b>	NM_001633
<b>Protein Refseq</b>	NP_001624
<b>MIM</b>	176870
<b>UniProt ID</b>	P02760

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<b>Chromosome Location</b>	9q32-q33
<b>Function</b>	IgA binding; calcium channel inhibitor activity; calcium oxalate binding; heme binding; peptidase inhibitor activity; protein homodimerization activity; serine-type endopeptidase inhibitor activity; transporter activity;

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