

# Active Recombinant Human AMBP protein, His&hFc-tagged

Cat. No. AMBP-331H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human AMBP protein(P02760)(20~352 aa), fused with N-terminal His tag and C-terminal hFc tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	20-352 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	Alpha-1-Microglobulin (a1M) is a small protein belonging to the superfamily of lipocalins, which is present in various body fluids such as plasma and cerebrospinal fluid. it has a role in the transportation of molecules like metals and serves as a marker for certain diseases, including kidney and liver disorders. The activity of recombinant human A1M was measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate MCA-Arg-Pro-Lys-Pro-Val-Glu-NVAL-Trp-Arg-Lys(DNP)-NH <sub>2</sub> in the assay buffer 50 mM Tris, 10 mM CaCl <sub>2</sub> , 150 mM NaCl, 0.05% (w/v) Brij-35, pH 7.5. Trypsin was diluted to 50 ug/ml in the assay buffer and 25 ul different concentrations of recombinant human a1M (MW: 64 KD) was incubated with 25ul diluted trypsin at 37°C for 15 minutes. Loading 50 μ of the incubated mixtures which were diluted five-fold in assay buffer into empty wells of a plate, and start the reaction by adding 50 μ of 20 μM substrate. include a substrate blank containing 50 μ of assay buffer and 50 μ of 20 μM substrate.

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e. Then read at excitation and emission wavelengths of 320 nm and 405 nm, respectively, in kinetic mode for 5 minutes. The result was shown and it was obvious that recombinant human a1M significantly decreased trypsin activity. The inhibition IC50 was < 58 nM.

**Molecular Mass** 64.3kDa

**Endotoxin** <1.0EU per 1µg (determined by the LAL method).

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

**Storage** Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

**Reconstitution** Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

**Gene Name** [AMBP alpha-1-microglobulin/bikunin precursor \[ Homo sapiens \]](#)

**Official Symbol** [AMBP](#)

**Synonyms** 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;

**Gene ID** [259](#)

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**mRNA Refseq**      [NM\\_001633](#)

**Protein Refseq**      [NP\\_001624](#)

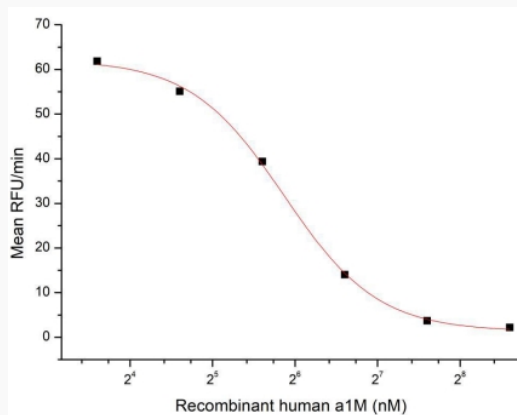
**MIM**      [176870](#)

**UniProt ID**      [P02760](#)

**SDS-PAGE**



**Activity**



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