

Active Recombinant Human AMBP protein, His&hFc-tagged

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

SPECIFICATION

Product Overview	Active Recombinant Human AMBP protein(P02760)(20~352 aa), fused with N-terminal His tag and C-terminal hFc tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	20-352 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	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 ₂ in the assay buffer 50 mM Tris, 10 mM CaCl ₂ , 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

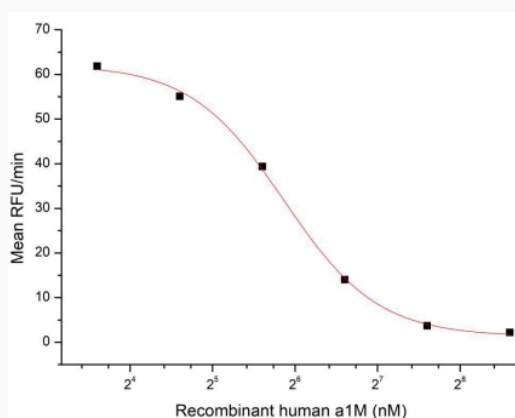
mRNA Refseq [NM_001633](#)

Protein Refseq [NP_001624](#)

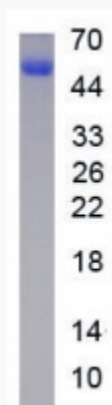
MIM [176870](#)

UniProt ID [P02760](#)

Activity



SDS-PAGE



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA