# Recombinant Human AMBP/Alpha 1 Microglobulin Protein (His Tag)

**Catalog No.** PKSH033773

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

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|---|---|
| **Synonyms** | Protein AMBP;Alpha-1-Microglobulin;Protein HC;Alpha-1 Microglycoprotein;Complex-Forming Glycoprotein Heterogeneous in Charge;Inter-Alpha-Trypsin Inhibitor Light Chain;ITI-LC;Bikunin;EDC1;HI-30;Uronic-Acid-Rich Protein;Trypstatin;AMBP;HCP;ITIL;A1M;EDC1;HCP;HI30;IATIL;ITI;ITIL;ITILC;UTI |
| **Species** | Human |
| **Expression Host** | HEK293 Cells |
| **Sequence** | Gly20-Val203 |
| **Accession** | P02760 |
| **Calculated Molecular Weight** | 21.9 kDa |
| **Observed molecular weight** | 33 kDa |
| **Tag** | C-His |
| **Bioactivity** | Not validated for activity |

## Properties

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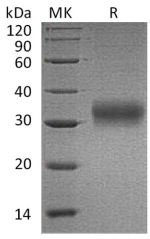
|---|---|
| **Purity** | > 95 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 95 % as determined by reducing SDS-PAGE.

## Background

Protein AMBP belongs to the calycin superfamily and Lipocalin family. AMBP can be cleaved into three chains: α-1-microglobulin, inter-α-trypsin inhibitor light chain and trypstatin. AMBP is expressed by the liver and secreted in plasma. α-1-microglobulin occurs in many physiological fluids including the plasma, urine, and cerebrospinal fluid. Inter-α-trypsin inhibitor is present in the plasma and urine. α-1-microglobulin occurs as a monomer and also in complexes with IgA and albumin, Inter-α-trypsin inhibitor inhibits trypsin, plasmin and lysosomal granulocytic elastase. Trypstatin act as a trypsin inhibitor, exists in a monomer forms and also occurs as a complex with tryptase in mast cells.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