

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

Catalog Number: PKSH033773

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

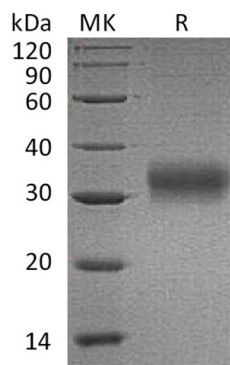
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human AMBP;Alpha 1 Microglobulin protein Gly20-Val203, with an C-terminal His
<b>Calculated MW</b>	21.9 kDa
<b>Observed MW</b>	33 kDa
<b>Accession</b>	P02760
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	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:  $\alpha$ -1-microglobulin, inter- $\alpha$ -trypsin inhibitor light chain and trypstatin. AMBP is expressed by the liver and secreted in plasma.  $\alpha$ -1-microglobulin occurs in many physiological fluids including the plasma, urine, and cerebrospinal fluid. Inter- $\alpha$ -trypsin inhibitor is present in the plasma and urine.  $\alpha$ -1-microglobulin occurs as a monomer and also in complexes with IgA and albumin, Inter- $\alpha$ -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 trypsin in mast cells.

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