

## Recombinant Human CD7/GP40 Protein (His Tag)

Catalog No. PKSH032223

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

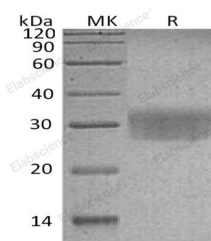
### Description

<b>Synonyms</b>	T-Cell Antigen CD7;GP40;T-Cell Leukemia Antigen;T-Cell Surface Antigen Leu-9;TP41;CD7
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ala26-Pro180
<b>Accession</b>	P09564
<b>Calculated Molecular Weight</b>	17.5 kDa
<b>Observed molecular weight</b>	32 kDa
<b>Tag</b>	C-His
<b>Bioactivity</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 20mM PB, 150mM NaCl, pH 7.2. 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

T-Cell Antigen CD7 is a single-pass type I membrane protein that belongs to the immunoglobulin superfamily.

### For Research Use Only

Human CD7 is synthesized as a 240 amino acid precursor that contains a 25 amino acid signal sequence and a 215 amino acid mature chain with a Ig-like (immunoglobulin-like) domain. CD7 is normally expressed on all T-lymphocytes; NK-cells; pre-B lymphocytes and pleuripotent hematopoietic stem cells. CD7 plays an essential role in T-cell interactions; T-cell/B-cell interaction during early lymphoid development; T- and NK-cell activation and cytokine production. CD7 has been shown to interact with PIK3R1 and SECTM1. However; the function of the CD7 protein in the immune system is still largely unknown.