


## Human CD7/GP40 protein, His tag (Animal-Free)

Cat #: PRP2033

Size: 10 µg/50 µg/100 µg /1 mg

### Product Information

	<b>Product Name:</b> Human CD7/GP40 protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP2033	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> >95% as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20C		<b>Preparation method:</b> HEK 293 Cells
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** The CD7 antigen is a member of the immunoglobulin superfamily that expresses on the surface of all thymocytes, a majority of mature T cells, and also natural killer cells. Interestingly, under physiological and different pathological conditions, the loss of CD7 antigen occurred in the subset of CD4+ memory T cells. The functions of the cell membrane CD7 antigen have been investigated in human mature T and NK cells, showing the direct involvement of this molecule in multiple effector functions related with activation, proliferation, production of cytokines and modification of adhesion properties. The CD7 glycoprotein is not only expressed by mature lymphoid cells, but also by early hematopoietic progenitors and several types of leukemias, suggesting a role of CD7 during hematopoiesis.

**Sequence:** Amino acid sequence derived from human CD7/GP40 protein (NP\_006128.1, Met 1-Pro 180) was expressed with a polyhistidine tag at the C-terminus.

**Protein length:** The recombinant human CD7/GP40 protein consists of 161 amino acids and predicts a molecular mass of 18 kD. The apparent molecular mass of the human CD7 is approximately 25-35 kDa in SDS-PAGE under reducing conditions due to glycosylation.

**Biological Activity:** Testing in progress.

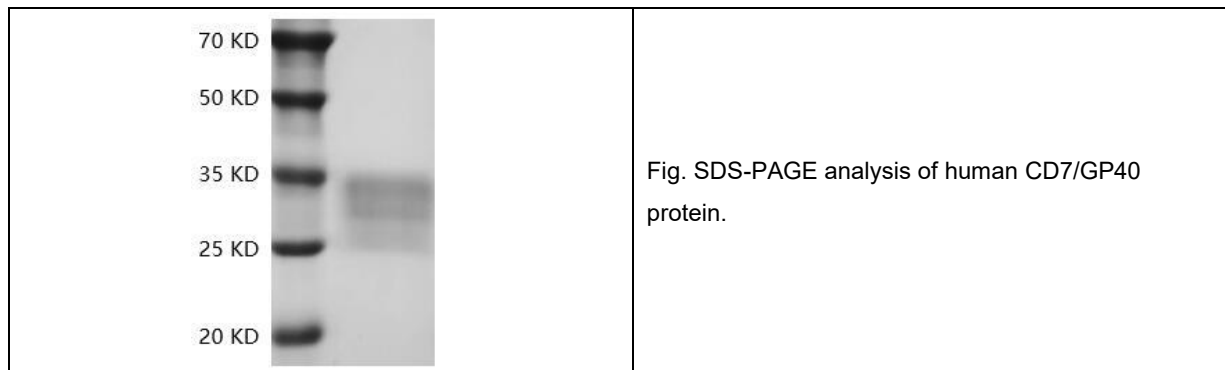
**Endotoxin:** <0.1 EU per µg of the protein as determined by the LAL method.

**Formulation:** 0.22 µm filtered protein solution is in PBS, pH 7.4.

**Storage Instructions:** Lyophilized human CD7/GP40 protein product should be stored desiccated below -18C. Upon reconstitution, the protein should be stored at 4C between 2 -7 days and for future use below -18C. For long term storage it

is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized human CD7 protein using the buffer we provided not less than 100 µg/m L, which can then be further diluted to other aqueous solutions.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We can not be responsible for patent infringements or other violations that may occur with the use of this product.