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

## Catalog Number: PKSH033512

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

Description		
Species	Human	
Source	HEK293 Cells-derived Human CD7/GP40 protein Ala26-Pro180, with an C-terminal Fc	
Calculated MW	43.4 kDa	
Observed MW	59 kDa	
Accession	P09564	
Bio-activity	Not validated for activity	
Properties		
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	
	°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of	
	reconstituted samples are stable at $< -20^{\circ}$ C 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.	
	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.	
Reconstitution	Please refer to the printed manual for detailed information.	

## Data

kDa	MK	R
120 90 60 40		
30		
20	-	
14	1	

> 95 % as determined by reducing SDS-PAGE.

## Background

T-Cell Antigen CD7 is a single-pass type I membrane protein that that belongs to the the immunoglobulin superfamily. 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-cell s; 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 PIK3R1and SECTM1. However; the function of the CD7 protein in the immune system is still largely unknown.

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