

Recombinant Human CD7/GP40 Protein (His Tag)

Catalog Number:PKSH031298



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

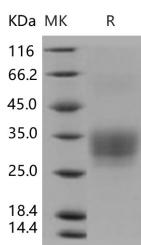
Description

Synonyms	T-Cell Antigen CD7;GP40;T-Cell Leukemia Antigen;T-Cell Surface Antigen Leu-9;TP41;CD7
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Pro 180
Accession	NP_006128.1
Calculated Molecular Weight	18.0 kDa
Observed molecular weight	30-35 kDa
Tag	C-His
Bioactivity	Immobilized human CD7-His at 10 µg/ml (100 µl /well) can bind biotinylated SECTM1-His, The EC50 of biotinylated SECTM1-His is 11-26ng/ml.

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°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 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



> 95 % as determined by reducing SDS-PAGE.

Background

The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell

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adhesion. CD7 is a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell / B-cell interaction during early lymphoid development.

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