

Recombinant Human CD7/GP40 Protein (His Tag)

Catalog Number:PKSH032223



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

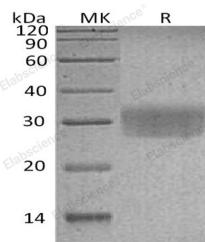
Description

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	Ala26-Pro180
Accession	P09564
Calculated Molecular Weight	17.5 kDa
Observed molecular weight	32 kDa
Tag	C-His

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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Reconstitution	Please refer to the specific buffer information in the printed manual.

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. 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 an Ig-like (immunoglobulin-like) domain. CD7 is normally expressed on all T-lymphocytes; NK-cells; pre-B lymphocytes and pluripotent 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.

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