

# Human CD5 / Cluster of Differentiation 5 (His Tag) recombinant protein



Catalog Number: 502625

## General Information

### Gene Name Synonym

Lymphocyte antigen T1/Leu-1

### Protein Construction

A DNA sequence encoding the human CD5 (NP\_055022.2) extracellular domain (Met 1-Pro 372) was expressed with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to bind biotinylated recombinant human LCK in a functional ELISA.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Arg 25

## Molecular Mass

The secreted recombinant human CD5 consists of 359 amino acids after removal of the signal peptide and has a calculated molecular mass of 40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band due to glycosylation.

## Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

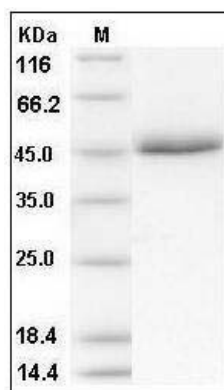
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human CD5 Protein (His Tag) SDS-PAGE