

## CD160 Protein, Human, Recombinant (His & Avi)

### General Information

Synonyms:	BY55FLJ46513;NK28;NK1; BY55;CD160
Protein Construction:	Gly25-Leu158
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O95971
Molecular Weight:	17.7 kDa (predicted). Due to glycosylation, the protein migrates to 27-33 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Human HVEM, His Tag captured on Protein A chip, can bind Human CD160, His Tag with an affinity constant of 1.2 $\mu$ M as determined in a SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

CD160 (also Natural killer cell receptor BY55) is a 27 - 30 kDa member of the Ig superfamily. In human, it is expressed principally on nonmyeloid hematopoietic cells. CD160 antigen is a receptor on immune cells capable to deliver stimulatory or inhibitory signals that regulate cell activation and differentiation. Exists as a GPI-anchored and as a transmembrane form, each likely initiating distinct signaling pathways via phosphoinositol 3-kinase in activated NK cells and via LCK and CD247/CD3 zeta chain in activated T cells.

Reference

Chabot S, et al. A novel antiangiogenic and vascular normalization therapy targeted against human CD160 receptor[J]. Journal of Experimental Medicine, 2011, 208(5):973-986.

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