

## CD160 Protein, Mouse, Recombinant (hFc)

### General Information

Synonyms:	CD160 molecule;By55;AU045688
Protein Construction:	Gly28-Ser160
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	O88875
Molecular Weight:	41.8 kDa (Predicted); 55-65 kDa (Reducing conditions due to glycosylation)

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
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 0.22 $\mu$ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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

Barakonyi A. et al., 2004, J Immunol.173 (9): 5349-54.

Rabot M. et al., 2006, Transpl Immunol. 17 (1): 36-8.

Abecassis S. et al., 2007, J Invest Dermatol. 127(5): 1161-6.

Giustiniani J. et al., 2007, J Immunol. 178 (3): 1293-300.

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