

CD160 Protein, Human, Recombinant (His)

General Information

Synonyms:	BY55;NK1;NK28;CD160 molecule
Protein Construction:	Ile27-Ser159
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O95971
Molecular Weight:	15.8 kDa (predicted); 20-30 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Loaded Recombinant Mouse HVEM on Pro-A Biosensor, can bind Recombinant Human CD160 (C-6His) with an affinity constant of 6.20 μM as determined in BLI assay. (Regularly tested)
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 $\mu\text{g}/\text{ml}$. 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

CD16 antigen, also known as Natural killer cell receptor BY55 and CD16, is a cell membrane protein which contains one Ig-like V-type (immunoglobulin-like) domain. CD16 is a GPI-anchored lymphocyte surface receptor in which expression is mostly restricted to the highly cytotoxic CD56(dim)CD16(+) peripheral blood NK subset. CD16 is a receptor showing broad specificity for both classical and non-classical MHC class I molecules. CD16 is expressed in spleen, peripheral blood, and small intestine. Expression of CD16 is restricted to functional NK and T cytotoxic lymphocytes. CD16 acts as a co-activator receptor for CD3-induced proliferation of CD4+ CD16+ T cells isolated

from inflammatory skin lesions. Unique CD4+ CD16+ lymphocyte subset may play a role in the pathogenesis of skin inflammation. Activated NK lymphocytes release a soluble form of CD16 that functionally impairs the MHC-I-specific cytotoxic CD8(+) T lymphocyte responsiveness. Cancer Immunotherapy Co-inhibitory Immune Checkpoint Targets Immune Checkpoint Detection: Antibodies Immune Checkpoint Detection: ELISA Antibodies Immune Checkpoint Detection: FCM Antibodies Immune Checkpoint Detection: IHC Antibodies Immune Checkpoint Targets Immunotherapy Targeted Therapy

Reference

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Rabot M. et al., 2006, Transpl Immunol. 17 (1): 36-8.
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Giustiniani J. et al., 2007, J Immunol. 178 (3): 1293-300.

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