Biotinylated Human CD160 Protein

Cat. No. CD1-HM460B

Description

Source	Recombinant Biotinylated Human CD160 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Gly25-Leu158.
Accession	O95971-1
Molecular Weight	The protein has a predicted MW of 17.7 kDa. Due to glycosylation, the protein migrates to 25-35 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
	>95% as determined by HPLC

Formulation and Storage

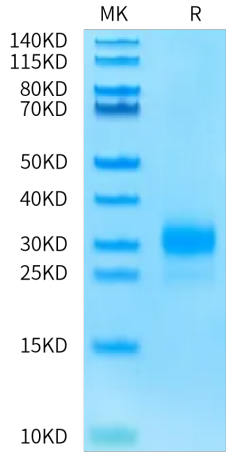
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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 antigenis 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.

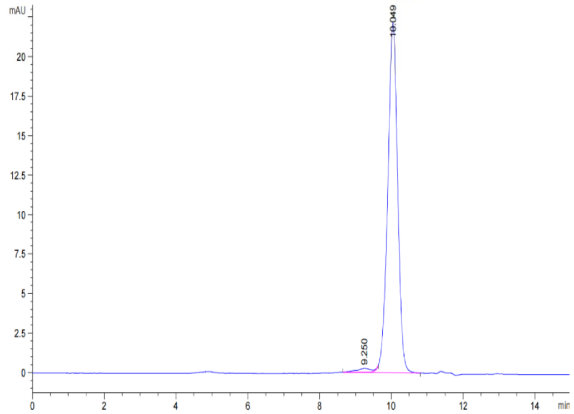
Assay Data

Bis-Tris PAGE



Biotinylated Human CD160 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human CD160 is greater than 95% as determined by SEC-HPLC.

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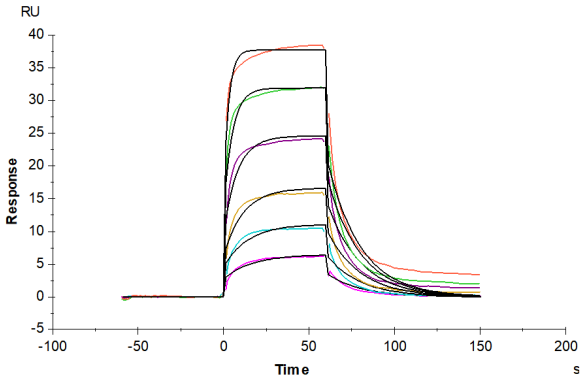
Assay Data

SPR Data



Human HVEM, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human CD160, His Tag with an affinity constant of 0.72 μM as determined in SPR assay (Biacore T200) (QC Test).