

Human CD117/c-kit Domain 4&5 Protein

Cat. No. CD1-HM145

Description

Source	Recombinant Human CD117/c-kit Domain 4&5 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Val308-Thr519.
Accession	P10721-2
Molecular Weight	The protein has a predicted MW of 25.56 kDa. Due to glycosylation, the protein migrates to 40-55 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

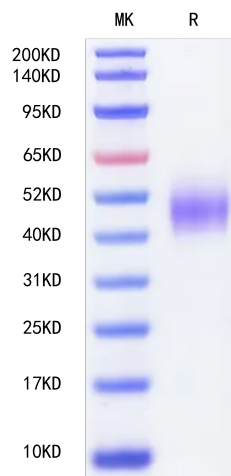
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

The stem cell factor receptor (SCFR, CD117) is encoded by the c-kit proto-oncogene, which is the cellular counterpart of the v-kit oncogene of a transforming feline retrovirus (HZ4-feline sarcoma virus). It is a 145kD transmembrane glycoprotein which is homologous to several other growth factor receptors such as the receptors for macrophage colony stimulating factor (M-CSF, CSF-1, c-fms), platelet-derived growth factor a and b (PDGF-Ra , PDGF-Rb), and the newly described growth factor receptor STK-1, which is the human homologue of the murine FLK2/FLT3 receptor.

Assay Data

Bis-Tris PAGE



Human CD117 Domain 4&5 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

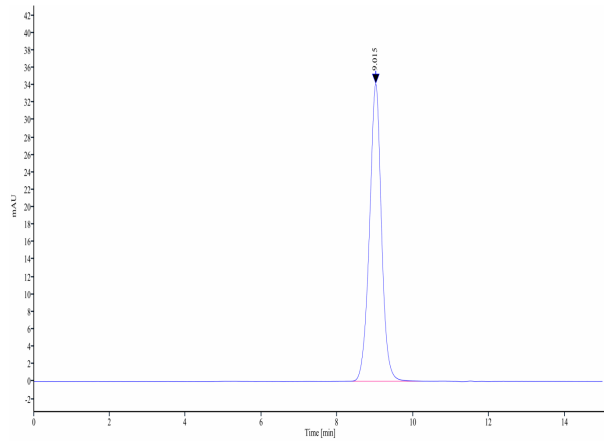
SEC-HPLC

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Assay Data



The purity of Human CD117 Domain 4&5 is greater than 95% as determined by SEC-HPLC.

Human CD117/c-kit Domain 4&5 Protein

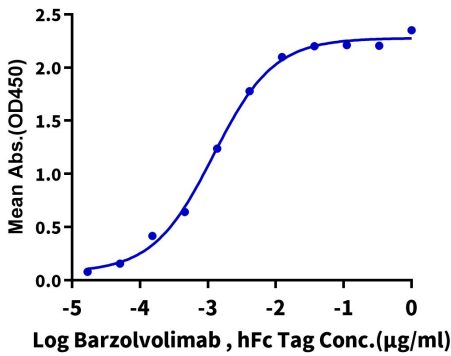
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Assay Data

ELISA Data

Human CD117 Domain 4&5, His Tag ELISA
0.05µg Human CD117 Domain 4&5, His Tag Per Well



Immobilized Human CD117 Domain 4&5, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Barzolvolimab, hFc Tag with the EC50 of 1.2ng/ml determined by ELISA.