

Human CEACAM-8/CD66b Protein

Cat. No. CEA-HM108

Description

Source	Recombinant Human CEACAM-8/CD66b Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln35-Ser319.
Accession	NP_001807.2
Molecular Weight	The protein has a predicted MW of 32.5 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

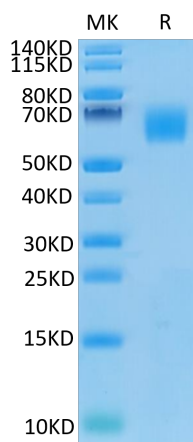
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled 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

Eosinophils and their products are likely important in the pathophysiology of allergic diseases, such as bronchial asthma, and in host immunity to parasitic organisms. CD66b (CEACAM8, CGM6, NCA-95) is a single chain, GPI-anchored, highly glycosylated protein belonging to the carcinoembryonic Ag supergene family. CD66b is an activation marker for human granulocytes.

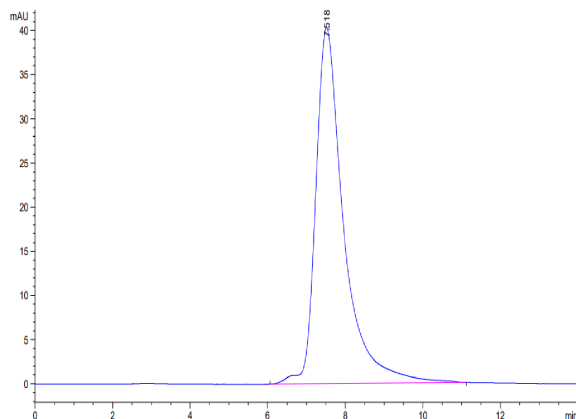
Assay Data

Bis-Tris PAGE



Human CEACAM-8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

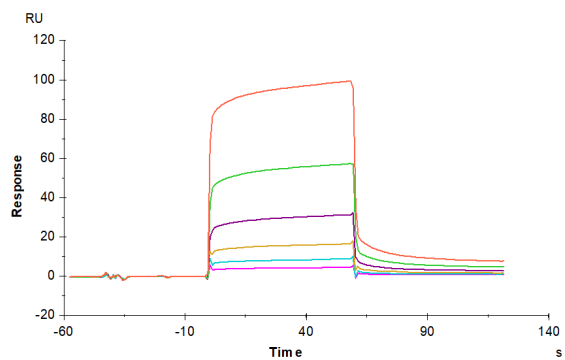
SEC-HPLC



The purity of Human CEACAM-8 is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Human CEACAM-8, His Tag immobilized on CM5 Chip can bind Human CEACAM-6, His Tag with an affinity constant of 4.59 μ M as determined in SPR assay (Biacore T200).