

Rev03
 Update: Aug,08,2025

DATASHEET

CEACAM-1/CD66a, His, Human

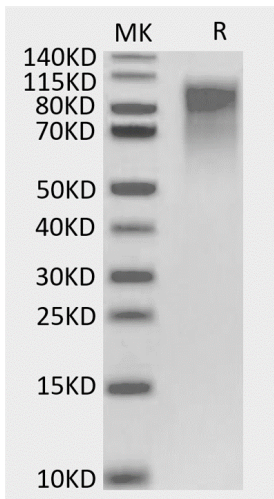
Cat. No.: Z05161

Product Introduction

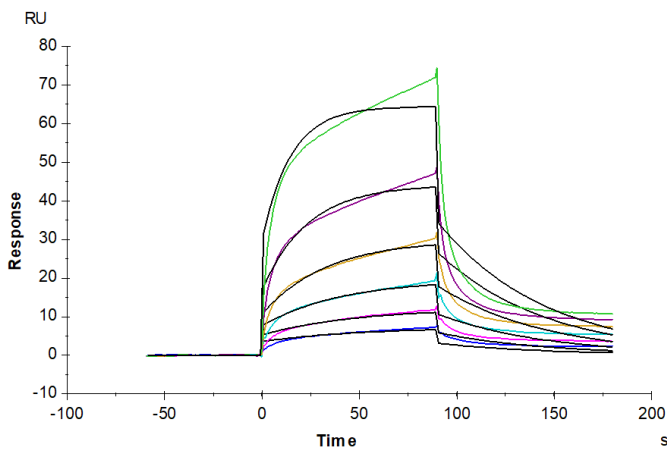
Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-right: 5px;"> CEACAM-1/CD66a (Gln35-Gly428) Accession # P13688-1 </div> <div style="background-color: #76b82a; color: white; padding: 5px; margin-left: 5px;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CEACAM-1/CD66a, His, Human at 0.5µg/ml (100µl/well) on the plate can bind AntiCEACAM1 Antibody, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	44.4 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 68-115 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Examples

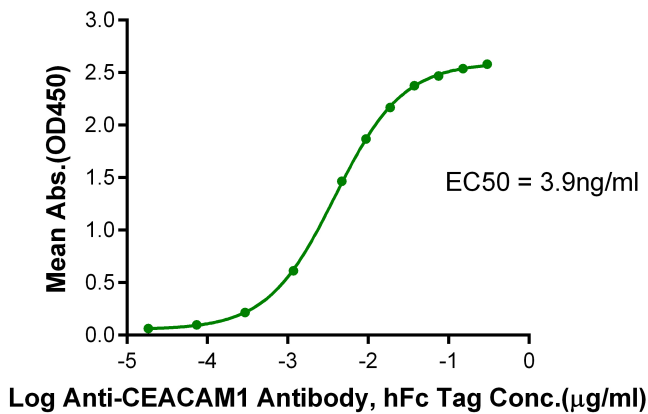
CEACAM-1/CD66a, His, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

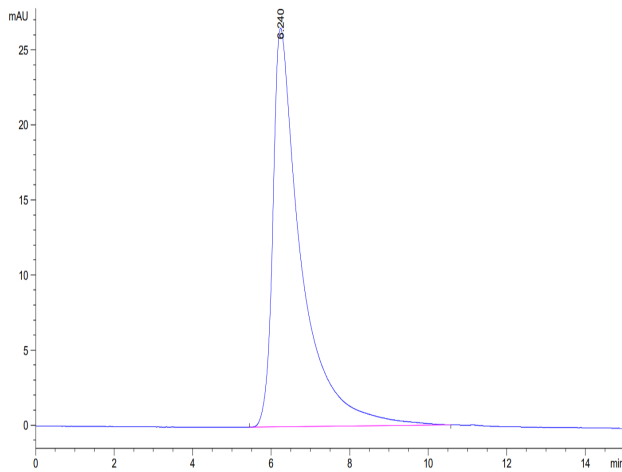


Human CEACAM-1, His Tag immobilized on CM5 Chip can bind CEACAM-1/CD66a, His, Human, His Tag with an affinity constant of $0.37 \mu\text{M}$ as determined in SPR assay (Biacore T200).



Immobilized CEACAM-1/CD66a, His, Human, His Tag at $0.5 \mu\text{g/ml}$ ($100 \mu\text{l/well}$) on the plate. Dose response curve for Anti-CEACAM1 Antibody, hFc Tag with the EC_{50} of 3.9ng/ml determined by ELISA.





The purity of CEACAM-1/CD66a, His, Human is greater than 95% as determined by SEC-HPLC.

Background

Target Background : Carcinoembryonic antigen-related cell adhesion molecule 1 (CEACAM-1) is the major antigen of the CD66 cluster of granulocyte differentiation antigens. The present study aimed to assess the biological function of CEACAM-1 on the growth of human colorectal cancer (CRC) cells in vitro.

Synonyms : BGP; BGP1; BGPI; CEACAM1; CD66a

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China