

# Human CEACAM8 Protein; His Tag

## Product Information

<b>Product Name</b>	Human CEACAM8 Protein; His Tag
<b>Storage temp</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-88552RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-88552RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	CEACAM8, CD66b, CD67, CGM6, NCA-95
<b>Source</b>	Human CEACAM8 Protein; His Tag (GM-88552RP) is expressed from human 293 cells (HEK-293). It contains AA Gln 35 - Ser 319 (Accession # NP_001807.2). This protein carries a His tag at the C-terminus.
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	32.2 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	CEACAM8, also known as CD66b and CD67, is a cell surface glycoprotein in the CEACAM family primarily expressed on neutrophils and certain myeloid cells. It plays a role in mediating cell adhesion, trafficking, and activation during inflammatory responses, and serves as a marker of neutrophil activation in clinical settings. CEACAM8 participates in modulating neutrophil functions such as degranulation, phagocytosis, and chemotaxis through interactions with other CEACAM family members and corresponding ligands. Engagement can activate intracellular pathways that control cytoskeletal rearrangement and inflammatory mediator production, contributing to the coordination of innate immune responses and the resolution of inflammation. Dysregulation of CEACAM8 signaling has been associated with inflammatory diseases and altered neutrophil function, making it of interest for diagnostic and therapeutic exploration.

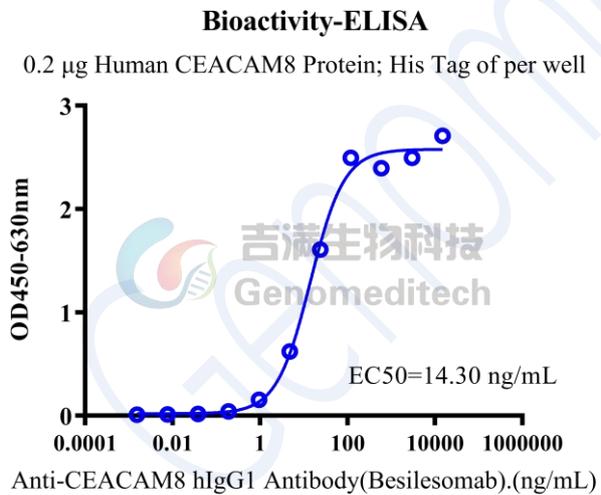
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## SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA



Human CEACAM8 Protein; His Tag (Catalog # GM-88552RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-CEACAM8 hIgG1 Antibody (Besilesomab) (Catalog # GM-49164AB) were added.