Recombinant CEAM8 protein (His tag)

Catalog Number	542269
Synonyms	CD67 antigen; Carcinoembryonic antigen CGM6; Carcinoembryonic antigen-related cell adhesion molecule 8; CEA cell adhesion molecule 8; Non-specific cross-reacting antigen NCA-95; CD antigen CD66b
Species	Human
Expression System	E. coli
Accession	P31997
Molecular Weight	Predictes a molecular mass of 33.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	35-320
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 35-320 aa (P31997) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human CEACAM8 (CD66b) Fragment (aa 35-320) - A high-purity protein fragment encompassing the complete extracellular Ig-like domains (V-type and C2-type) essential for calcium-independent cell adhesion functions. This fragment serves as an ideal research tool for investigating CEACAM8-mediated cellular interactions and adhesion mechanisms in neutrophil biology and immune response studies. CEACAM8 (CD66b) is a cell surface glycoprotein that functions in calcium-independent cell adhesion through heterophilic interactions with other carcinoembryonic antigen-related cell adhesion molecules, particularly CEACAM6. These interactions are critical in activated neutrophils, where CEACAM8 mediates important cell-cell adhesion events. The protein is anchored to the cell membrane via a GPI-anchor and is expressed on the cell surface, positioning it to participate in intercellular communication and adhesion processes. The full-length protein's ability to mediate specific heterophilic adhesion makes it a significant player in immune cell interactions and inflammatory responses.