Recombinant CEAM4 protein (His tag)

Catalog Number	541875
Synonyms	Carcinoembryonic antigen CGM7; Carcinoembryonic antigen-related cell adhesion molecule 4; CEA cell adhesion molecule 4; Non-specific cross-reacting antigen W236
Species	Human
Expression System	E. coli
Accession	O75871
Molecular Weight	Predictes a molecular mass of 14.31 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	36-155
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 36-155 aa (O75871) 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 CEACAM4 (Carcinoembryonic antigen-related cell adhesion molecule 4) Fragment (aa 36-155) is a high-purity protein designed to encompass the Ig-like V-type domain. This fragment serves as a valuable tool for investigating CEACAM4's role in granulocyte-mediated phagocytosis, enabling targeted functional studies without the full membrane context. CEACAM4 is a granulocyte orphan receptor that functions as a trigger for efficient phagocytosis of attached particles, playing a critical role in immune response mechanisms. As a single-pass type I membrane protein, it is localized to the cell membrane where it facilitates cell adhesion and phagocytic signaling. The provided fragment (aa 36-155) specifically contains the Ig-like V-type domain (aa 36-139), allowing researchers to study domain-specific interactions and phagocytosis-related functions in isolation.