Recombinant CEA16 protein (His tag)

Catalog Number	538152
Synonyms	Carcinoembryonic antigen-like 2; Carcinoembryonic antigen-related cell adhesion molecule 16; CEA cell adhesion molecule 16
Species	Human
Expression System	E. coli
Accession	Q2WEN9
Molecular Weight	Predictes a molecular mass of 45.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	21-425
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 21-425 aa (Q2WEN9) 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 CEACAM16 Fragment (aa 21-425) is a high-purity protein designed for investigating cell adhesion mechanisms and auditory function. This fragment specifically includes the Ig-like C2-type domains, making it an ideal tool for domain-specific functional studies. CEACAM16 (Carcinoembryonic antigen-related cell adhesion molecule 16) is essential for proper hearing, where it maintains the structural integrity of the tectorial membrane in the cochlea. The protein is secreted and localizes to the tips of cochlear outer hair cells and the tectorial membrane, playing a critical role in auditory signal transduction. Research links CEACAM16 to hearing preservation, with implications for understanding sensory biology and related disorders.