

For Research Use Only

# Recombinant Human CEA/CD66e protein (His Tag)



Catalog Number: Eg0449

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Human CEA protein Lys35-Ala685 (Accession# NP\_004354.2) with a His tag at the C-terminus.

**GeneID:**

1048

**Accession:**

NP\_004354.2

**Predicted Molecular Mass:**

75.1 kDa

**SDS-PAGE:**

85-120 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Carcinoembryonic antigen (CEA), also known as CD66e or CEACAM5, is a cell surface glycoprotein belonging to the immunoglobulin superfamily, mainly serving as a cell adhesion molecule mediating intercellular contact by both homophilic and heterophilic binding. CEA inhibits anoikis and plays a role in tumorigenesis and metastasis. CEA has been found to be overexpressed in a wide variety of human cancers, including colon, breast, and lung. CEA is a tumor marker and is routinely exploited for diagnosis.

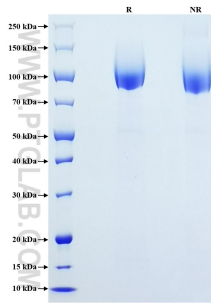
## References

1. S. Benchimol, et al. (1989) Cell. 57(2):327-34.
2. Chaogu Zheng, et al. (2011) PLoS One. 6(6):e21146.
3. Cosme Ordonez, et al. (2007) J Cell Physiol. 210(3):757-65.

## Synonyms

CEA, Carcinoembryonic antigen, Carcinoembryonic antigen-related cell adhesion molecule 5, CD66e, CEACAM5

## Selected Validation Data



Purity of Recombinant Human CEA was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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