

## Human CEA (recombinant)

### Description:

InVivo offers a recombinant form of **Human Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5 or CEA)**, which is produced under serum-free conditions in HEK 293 cells.

The expression construct contains **residues 1 to 677** of human CEA and with a 25 amino acid C-terminal truncation ( $\Delta$ 678–702) compared to full-length CEA, which contains 702 amino acids.

The amino acid sequence is identical to residues 1 to 677 of **GenBank entry [AAA62835.1](#)**. With respect to reviewed **UniProtKB entry [P06731](#)**, this construct contains five sequence deviations: **N359I, N360I, Q361R, F641L, T646Q**.

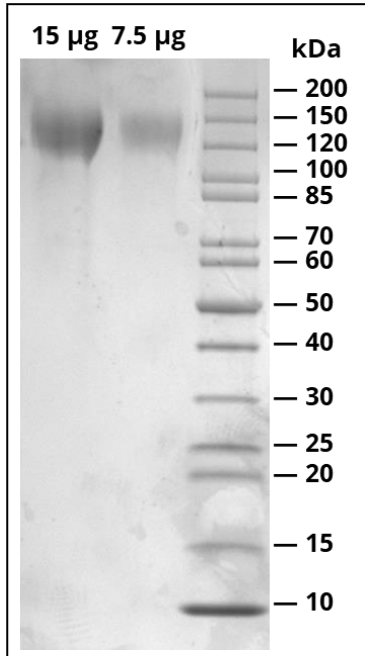
The recombinant protein is produced under serum-free conditions in optimized HEK293-cell system and purified through using ion exchange chromatography and Size Exclusion Chromatography.

|                                   |   |
|-----------------------------------|---|
| <b>Product-ID:</b>                | RP_SZ_196   |
| <b>Expression System:</b>         | Mammalian; HEK  |
| <b>Protein Accession Number:</b>  | <a href="#">P06731</a>                                      |
| <b>Amino Acids:</b>               | Met1–Ser677   |
| <b>Mutations:</b>                 | N359I, N360I, Q361R, F641L, T646Q                           |
| <b>Mature Protein N-Term:</b>     | Lys35 (predicted)   |
| <b>Tag:</b>                       | none  |
| <b>Expected Molecular Weight:</b> | 70.7 kDa (glycosylated form runs at 85-200 kDa on SDS-PAGE) |
| <b>Formulation:</b>               | Liquid, PBS, pH 7.4   |
| <b>Concentration:</b>             | ≥ 0.5 mg/mL (photometric)                                   |
| <b>Activity:</b>                  | CEA Kryptor assay   |
| <b>Purity:</b>                    | ≥ 90 % (Analytical SEC)                                     |

**The product is for research use or for further manufacturing only.**

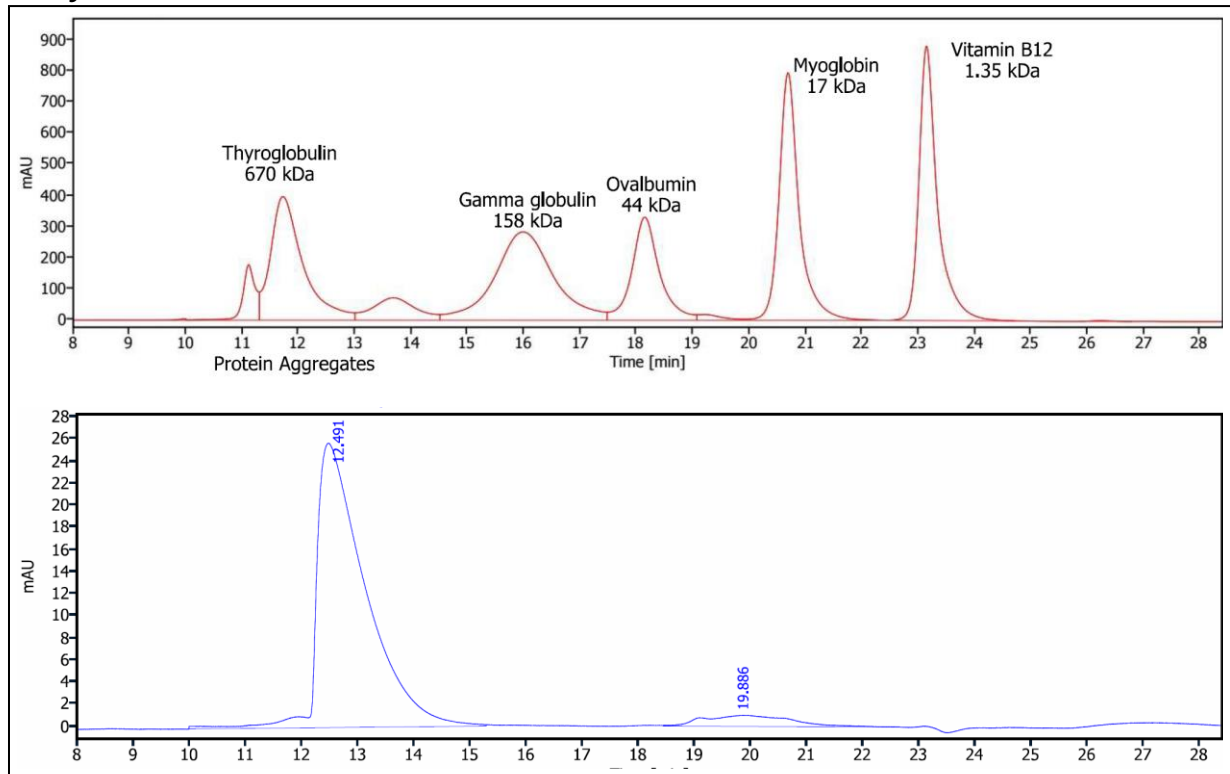
## Human CEA (recombinant) — Supplementary Data

### SDS-PAGE:



SDS-PAGE, 4–20 % Tris-Glycine.  
 Reducing conditions, Coomassie-stained.

### Analytical SEC:



Analytical SEC of purified protein (bottom) in comparison with gel filtration protein standard (top).