

## CEACAM5 Protein, Human, Recombinant (CHO, His)

### General Information

Synonyms:	CD66e;Meconium antigen 100;CEACAM5
Protein Construction:	Lys35-Ala685
Species:	Human
Expression Host:	CHO Cells 3E7
Accession:	P06731

### QC Testing

Biological Activity:	Immobilized CEA, His, Human at 1.0 µg/ml (100 µl/well) can bind Human CEA Antibody (1A5C3), Mouse with EC 50 =2.323 ng/ml when detected by M6 Goat Anti Mouse Fc.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Carcinoembryonic antigen (CEA) also known as Carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5), CD antigen CD66e, Meconium antigen 100, is an oncofetal glycoprotein that is normally expressed by mucosal cells. CEA is a member of the immunoglobulin (Ig) superfamily of proteins. CEA is a glycosphosphatidylinositol- (GPI-) linked membrane-anchoring protein that is exposed to the cell surface that faces the extracellular matrix. The membrane-anchoring region of CEA can be cleaved by phospholipase C and phospholipase D. The cleaved products are soluble and circulating through blood vessels. Thus, CEA can be present as secreted and cell surface-anchored forms. CEA is functionally associated with cellular interaction, cell adhesion, immune response, anoikis resistance, and promotion of liver metastasis. CEA overexpression is

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associated with many types of cancers including gastrointestinal, respiratory, and genitourinary system and breast cancers.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481