

## CEACAM5 Protein, Human (Biotinylated, HEK293, C-His)

Cat. No.:	HY-P75355
Synonyms:	Carcinoembryonic antigen; CEA; Meconium antigen 100; CD66e
Species:	Human
Source:	HEK293
Accession:	NP_004354.2 (K35-A685)
Gene ID:	1048
Molecular Weight:	100-110 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	CEACAM5 protein, a cell surface glycoprotein, assumes a multifaceted role in cell adhesion, intracellular signaling, and tumor progression. Functioning as a mediator of both homophilic and heterophilic cell adhesion, CEACAM5 interacts with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM6. In the context of tumor progression, CEACAM5 acts as an oncogene, promoting tumor advancement and inducing resistance to anoikis in colorectal carcinoma cells. Additionally, during microbial infection, CEACAM5 serves as a receptor for E. coli Dr adhesins, and the binding of these adhesins results in the dissociation of the CEACAM5 homodimer. These diverse functions underscore the versatility of CEACAM5 in regulating cellular processes and highlight its significance in both physiological and pathological contexts.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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