

## CEACAM3 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P72694
<b>Synonyms:</b>	Carcinoembryonic Antigen-Related Cell Adhesion Molecule 3; CD66d; CEACAM3; CGM1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P40198 (K35-G155)
<b>Gene ID:</b>	1084
<b>Molecular Weight:</b>	18-20 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           K L T I E S M P L S    V A E G K E V L L L    V H N L P Q H L F G    Y S W Y K G E R V D            G N S L I V G Y V I    G T Q Q A T P G A A    Y S G R E T I Y T N    A S L L I Q N V T Q            N D I G F Y T L Q V    I K S D L V N E E A    T G Q F H V Y Q E N    A P G L P V G A V A            G         </p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>CEACAM3 Protein emerges as a pivotal granulocyte receptor that orchestrates the efficient opsonin-independent phagocytosis of CEACAM-binding microorganisms, encompassing pathogens such as Neisseria, Moraxella, and Haemophilus species. This significant role positions CEACAM3 at the forefront of pathogen clearance within the innate immune system. In the course of pathogen phagocytosis, CEACAM3 takes on the responsibility of stimulating RAC1, further contributing to the cellular processes involved in pathogen engulfment. Notably, CEACAM3 engages in a calcium-dependent interaction with S100A9/calprotectin, a dynamic interaction that occurs independently of CEACAM3 phosphorylation. This intricate network of functions underscores the multifaceted role of CEACAM3 in orchestrating effective immune responses against a spectrum of microorganisms.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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