
Recombinant Human CEACAM-4 Protein

Catalog Number: 230-30242

Data Sheet / Certificate of Analysis (CoA)

Last Revised: 11/27/2024

Source

Species	Human
Accession Number	O75871
Gene Symbols	CEACAM4
Synonyms	CEACAM-4, Carcinoembryonic Antigen Related Cell Adhesion Molecule 4, Non-Specific Cross-Reacting Antigen W236, Carcinoembryonic Antigen CGM7, CGM7, Carcinoembryonic Antigen-Related Cell Adhesion Molecule 4-Sv1.
Expressed Region	Phe36-Gly155

Preparation

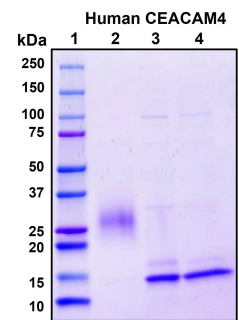
Expression System	HEK293 cells
Tag	C-terminal histidine tag
Purity	>90%
Molecular Weight	Recombinant protein product has a calculated molecular mass of 13 kDa. Due to the abundant glycosylation, it migrates as approximately 26-30 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. See deglycosylation analysis image below.
Endotoxin Level	<0.5 EU per ug of the protein as determined by the LAL method

Specifications

Format	Lyophilized powder
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS (pH 7.4)
Concentration	Determined by Pierce BCA protein assay
Reconstitution	Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1.0 mg/mL with sterile deionized water.

SDS-PAGE Image

Figure 1. Deglycosylation analysis of purified recombinant proteins. Lane 1, protein ladder (kDa). Lane 2, glycosylated protein (delivered to customers). Lanes 3 and 4, deglycosylated proteins under native and denature conditions respectively.



Shipping

The product is shipped with ice packs. Upon arrival, immediately store it at the temperature recommended below.

Storage/Stability

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C.
- For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer.
- Generally, the shelf life is up to 12 months from date of receipt at -20°C or -80°C under sterile conditions.
- Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots at -20°C or -80°C.