

Recombinant Human CEACAM5/CD66e/CEA (C-6His-Avi) Biotinylated

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Catalog Number:PKSH033864

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

| | |
|------------------------------------|---|
| Synonyms | Carcinoembryonic antigen-related cell adhesion molecule 5;Carcinoembryonic antigen;CEA;Meconium antigen 100;CD66e;CEACAM5 |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Lys35-Ala685 |
| Accession | P06731 |
| Calculated Molecular Weight | 74.2 kDa |
| Observed molecular weight | 110-150 kDa |
| Tag | C-His-Avi |

Properties

| | |
|-----------------------|---|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Background

Carcinoembryonic antigen-related cell adhesion molecules (CEACAMs) belong to a group of mammalian immunoglobulin related glycoproteins. They play critical roles in cell-cell recognition. CEACAM5, also called CEA and CD66e, is characterized by having seven extracellular Ig domains and a glycosylphosphatidylinositol (GPI) anchor. CEACAM5 is expressed primarily by epithelial cells, and functions as a calcium-independent adhesion molecule through homophilic and heterophilic interactions with CEACAM1. Studies have shown that CEACAM5 is overexpressed in a majority of carcinomas, and its overexpression can protect tumor cells from apoptosis. It is commonly used as a cancer marker.

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