Recombinant Human CEACAM5 Protein (His Tag)

Catalog No. PKSH031272

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

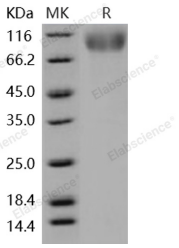
Description

Synonyms	CD66e;CEA
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Ala 685
Accession	NP_004354.2
Calculated Molecular Weight	72.8 kDa
Observed molecular weight	100-110 kDa
Tag	C-His
Bioactivity	Not validated for activity

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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 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.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

CEACAM5; also known as CEA or D66e; belongs to the large CEACAM subfamily of immunoglobulin superfamily. CEACAM5 is expressed primarily by epithelial cells; and is synthesized as a glycoprotein with a MW of 180 kDa

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comprising 60% carbohydrate. CEACAM5 contains one Ig-like V-type domain at the N-terminus; followed by six Ig-like C2-type domain and a GPI anchor; and exists as a homodimer. CEACAM5 and CEACAM6 are overexpressed in many cancers and are associated with adhesion and invasion. CEACAM5 can mediate cell-cell adhesion through homotypic and heterotypic interactions. It functions as a homotypic intercellular adhesion molecule and serves as a widely used tumor marker; since it is expressed at higher levels in tumorous tissues than in corresponding normal tissues. CEACAM5 has also been shown to contribute to tumorigenicity by inhibiting cellular differentiation. In addition; CEACAM5 is identified as the host receptor for the Dr family of adhesins of E.Coli; and the binding of E.coli Dr adhesins leads to dissociation of the CEACAM5 homodimer.

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