

Recombinant Cynomolgus CEACAM5 Protein, C-His-tagged

Product Information

Cat	IMP-4328
Official Symbol	CEACAM5
Product Overview	Recombinant cynomolgus CEACAM5 (XP_005589491.1) (Met1-Ala688) was expressed with a polyhistidine tag at the C-terminus.
Description	<p>CEACAM5, also known as CEA or D66e, belongs to the large CEACAM subfamily of the immunoglobulin superfamily. CEACAM5 is expressed primarily by epithelial cells, and is synthesized as a glycoprotein with an MW of 180 kDa comprising 60% carbohydrate. CEACAM5 contains one Ig-like V-type domain at the N-terminus, followed by six Ig-like C2-type domains 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.</p>
Expression System	HEK293
Species	Cynomolgus
Tag	C-His
Predicted N Terminal	Gln 35
Form	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.
Molecular Mass	The recombinant CEACAM5 consists of 665 amino acids and predicts a molecular mass of 73.5 kDa. As a result of glycosylation, it migrates as an approximately 105-140 kDa band in SDS-PAGE under reducing conditions.
Protein length	Met1-Ala688
Endotoxin	< 1.0 EU/μg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is

recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.