

Recombinant Cynomolgus CD96 Protein, C-His&AVI-tagged, Biotinylated

Product Information

Cat	IMP-1572
Official Symbol	CD96
Product Overview	Recombinant cynomolgus CD96 (A0A2K5TWV6-1) (Met1-Met503) was expressed with a c-terminal AVI tagged polyhistidine tag at the C-terminus (his-AVI). The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.
Description	<p>The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. The CD155 ligand CD96 is a member of the Ig superfamily. It's an immunoglobulin-like protein tentatively allocated to the repertoire of human NK receptors. NK cells recognize poliovirus receptor (PVR), a nectins and nectin-like protein family member serve to mediate cell-cell adhesion, cell migration, with the presence of an additional receptor, CD96. CD96 promotes NK cell adhesion to target cells expressing PVR, stimulates cytotoxicity of activated NK cells, and mediates acquisition of PVR from target cells. The effect the cells with mutated CD96 protein lost adhesion and growth activities indicates that CD96 mutations may cause a form of the C syndrome by interfering with cell adhesion and growth.</p>
Expression System	HEK293
Species	Cynomolgus
Tag	C-His&AVI
Predicted N Terminal	Val 22
Form	Lyophilized from sterile PBS, pH7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.
Molecular Mass	The recombinant cynomolgus CD96 consists of 507 amino acids and predicts a molecular mass of 56.6 kDa. It migrates as an approximately 128.3 kDa band in SDS-PAGE under reducing conditions.
Protein length	Met1-Met503
Endotoxin	< 1.0 EU/μg 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.