Recombinant Cynomolgus NKG2D, His-tagged

Cat. No. NKG2D-8845C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the cyno NKG2D (Phe78-Val216) was expressed with a polyhistide tag at the N-terminus.
Species	Cynomolgus
Source	Insect Cells
ProteinLength	78-216 a.a.
Description	NKG2D, also known as CD314, consists of two disulphide-linked type II transmembrane proteins with short intracellular proteins uncapable to transduce signals. In order to transduce signals, NKG2D needs adaptor proteins and it uses two adaptor proteins, DAP10 and DAP12. These two adaptor proteins associate as homodimers to NKG2D- therefore the entire receptor complex appears as a hexamer. NKG2D is an immune receptor. Cellular stress can induce ligands for NKG2D which results in the cell susceptible to NK cell-mediated lysis. NKG2D can send co-stimulatory signals to activate CD8 T cells. NKG2D also plays an important role in viral control.
Predicted N Terminal	His
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Molecular Mass	The recombinant cyno NKG2D consists of 155 amino acids and has a calculated

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	molecular mass of 18.3 kDa. It migrates as an 21-24 KDa band in SDS-PAGE under reducing conditions.
Endotoxin	1.0 eu/μg of the protein as determined by the lal
Purity	>95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Storage	Store it under sterile conditions at -70℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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