

NCR1

Recombinant Human Natural Cytotoxicity Receptor NKp46

Catalog No.	CRN103A CRN103B CRN103C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Natural cytotoxicity triggering receptor 1, NK cell-activating receptor, Lymphocyte antigen 94 homolog, NK-p46, NKp46, CD335 antigen, LY94		
Description:	<p>Recombinant Human Natural Cytotoxicity Receptor NKp46 is a single, non-glycosylated polypeptide chain containing 235 amino acids.</p> <p>Natural cytotoxicity receptor (NCR) NKp46 has been shown to represent a novel NK cell-specific molecule involved in human NK cell activation. The natural cytotoxicity receptors (NCRs) are a recently characterized family of Ig-like activation receptors that appear to be major triggering receptors in tumor cell recognition. The three known NCRs include NKp46 and NKp30, which are expressed on circulating NK cells, and NKp44, which is expressed only on activated NK cells. NKp46 has been implicated in NK cell-mediated lysis of several autologous tumor cells, pathogen-infected cell lines and mononuclear phagocytes infected with an intracellular bacterium. The lysis of tumor cells by NK-cells involves recognition by NKp46 of membrane heparan sulfate proteoglycans.</p> <p>Furthermore, NKp46 is a surface receptor involved in NK-cell cell death by apoptosis. NKp46 has two extracellular Ig-like domains followed by a ~40 residue stalk region, a type I transmembrane domain, and a short cytoplasmic tail. Reduced cell surface expression of NKp46 and other NK-cell receptors is linked to the impaired NK-cell cytolytic function in viremic HIV-1 infection.</p>		
Physical Appearance:	Sterile filtered colorless solution.		
GeneID:	9437		
Source:	<i>E. coli</i>		
Molecular Mass:	26.6 kDa		
Formulation:	The protein contains phosphate buffered saline, pH7.4, + 1mM EDTA.		
Purity:	> 95.0% as determined by RP-HPLC and SDS-PAGE.		
Amino Acid Sequence:	MQQQTLPKPF IWAEPHFMVP KEKQVTICCQ GNYGAVEYQL HFEGSLFAVD RPKPPERINKVKFYIPDMNS RMAGQYSCIY RVGELWSEPS NLLDLVVTEM YDTPTLSVHP GPEVISGEEV TFYCRLDTAT SMFLLLKEGR SSHVQRGYGK VQAEFPLGPV TTAHRGTYRX FGSYNNHAWSPSEPVKLLV TGDIENTSLA PEDPTFSADT WGTYLLTTET GLQKDHALLWD HTAQN.		
Storage & Stability:	Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.