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# Recombinant human CD158e/KIR3DL1 protein

Catalog Number: KIR3004

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

### **Domain**

361-444aa

### UniProt No.

P43629

### **NCBI Accession No.**

NP 037421

### **Alternative Names**

Killer cell immunoglobulin like receptor three Ig domains and long cytoplasmic tail 1, CD158 antigen-like family member E, HLA-BW4-specific inhibitory NK cell receptor, Natural killer-associated transcript 3, NKAT-3, p70 natural killer cell receptor clones CL-2/CL-11, p70 NK receptor CL-2/CL-11, cl-2, KIR, NKB1, cl-11, NKB1B, AMB11, CD158e1/2, CD158E1, CD158e2

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

15 kDa (132aa) confirmed by MALDI-TOF

# **Concentration**

1mg/ml (determined by Bradford assay)

## **Formulation**

Liquid in. 25mM Tris-HCl buffer (pH 7.5) containing 100mM NaCl

## **Purity**

> 90% by SDS-PAGE

# Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

The three Ig-domain from of inhibitory killer cell Ig-like receptor 1 (KIR3DL1, NKB1, nkat3, p70KIR) is a NK cell receptor for polymorphic HLA-B determinant. KIR3DL1 recognizes the Bw4 determinant defined by sequence motifs at positins 77-83 of the HLA-B heavy chain. The cytoplasmic tail of KIR, which contains two



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immunoreceptor tyrosine-based inhibition motifs (ITIMs), mediates inhibitory signal transduction that prevents killer cell-mediated cytotoxicity. A His-tag fusion protein of KIR3DL1 cytoplasmic tail (361-444aa) was overexpressed as insoluble protein aggregates (inclusion bodies). This protein was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a redox buffer

## **Amino acid Sequence**

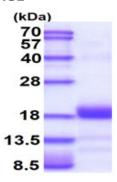
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSTSGT IDKLDIEFHL WCSNKKNAAV MDQEPAGNRT ANSEDSDEQD PEEVTYAQLD HCVFTQRKIT RPSQRPKTPP TDTILYTELP NAKPRSKVVS CP

## **General References**

Chan HW., et al. (2003) J. Exp. Med. 197(2), 245-55. Gardiner CM., et al. (2001) J Immunol. 166(5):2992-3001.

# **DATA**

## **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

