# 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**

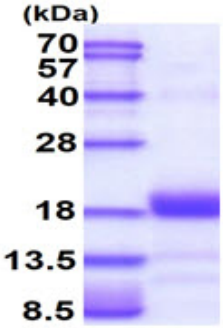
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSTSGT IDKLDIEFHL WCSNKKNAAV MDQEPAGNRT ANSEDSDEQD PEEVTYAQLD HCVFTQRKIT RPSQRPKTPP TDTILYTELP NAKPRSKVVS CP

**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.