

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 positions 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 GMASMTGGGQ MGRDLYDDDD KDRWGSTSGT IDKLDIEFHL WCSNKKNAAV MDQEPAGNRT
ANSEDSDEQD PEEVTYAQLD HCVFTQRKIT RPSQRPKTPP TDTILYTELP NAKPRSKVVS CP

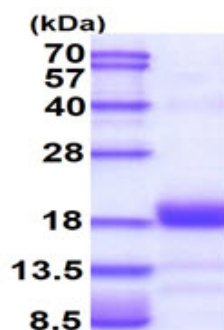
General References

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.