

Recombinant Human Killer Cell Immunoglobulin-like Receptor, Three Domains, Long Cytoplasmic Tail, 1, His-tagged

Cat. No. KIR3DL1-349H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant His-tag fusion protein of KIR3DL1 cytoplasmic tail (361-444aa) was overexpressed as insoluble protein aggregates (132 aa, 15 kDa). This protein was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a redox buffer.
Species	Human
Source	E.coli
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 immunoreceptor tyrosine-based inhibition motifs(ITIMs), mediates inhibitory signal transduction that prevents killer cell-mediated cytotoxicity.
Formulation	Liquid. In 25 mM Tris-HCl buffer (pH 7.5) containing 100 mM NaCl.
Molecular Weight	15 kDa (132 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Synonyms

Gene Name [KIR3DL1](#)

Gene ID [3811](#)

mRNA Refseq [NM_013289.2](#)

Protein Refseq [NP_037421.2](#)

MIM [604946](#)

UniProt ID [P43629](#)

Chromosome Location 19q13.4

Pathway Antigen processing and presentation; Natural killer cell mediated cytotoxicity; Signaling in Immune system.

Function HLA-B specific inhibitory MHC class I receptor activity; receptor activity.

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