

# Recombinant Human Killer Cell Immunoglobulin-Like Receptor, Two Domains, Short Cytoplasmic Tail, 4

**Cat. No.** KIR2DS4-147H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant KIR2DS4 protein produced in E.Coli is a single, non-glycosylated polypeptide chain and was purified by FPLC gel-filtration chromatography (202 aa, 22.2 kDa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	An activating Killer Cell Ig-like Receptor(KIR, previously called p50 KIR, p50.3, cl39, or KAR-K1), which may recognize class I MHC molecules. The protein coding region of the extracellular domain of KIR2DS4(amino acids 1-202) was cloned into an E. coli expression vector. The extracellular domain of KIR2DS4 was overexpressed as insoluble protein aggregates(inclusion bodies). The recombinant KIR2DS4 protein was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a redox buffer.
<b>Formulation</b>	Liquid. In 20 mM Tris-HCl buffer (pH 7.5).
<b>Molecular Weight</b>	22.2 kDa (202 aa).
<b>Purity</b>	> 95% by SDS – PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Amino acid Sequence**  
 MEGVHRKPSF LALPGHLVKS EETVILQCWS DVMFEHLLH REGKFNNTLH  
 LIGEHHDGVS KANFSIGPMM PVLAGTYRCY GSVPHSPYQL SAPSDPLDMV  
 IIGLYEKPSL SAQPGPTVQA GENVTLSLSCSS RSSYDMYHLS REGEAHERRL  
 PAVRSINGTF QADFPLGPAT HGGTYRCFGS FRDAPYEWSN SSDPLLVSVT GN

**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

**Gene Name**  
[KIR2DS4 killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 4 \[ Homo sapiens \]](#)

**Synonyms**  
 KIR2DS4; KIR1D; KIR412; KKA3; MGC120019; MGC125315; MGC125317; NKAT-8; NKAT8; PAX; cl-39; Killer cell immunoglobulin-like receptor; nkat8; CD158i; CD158i; CL-17; CD158 antigen-like family member I; CD158i antigen; KIR antigen 2DS4; MHC class I NK cell receptor; Natural killer-associated transcript 8; P58 natural killer cell receptor clone CL-39; killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 4; killer inhibitory receptor 4-1-2; natural killer cell inhibitory receptor; p58 NK receptor.

**Gene ID**  
[3809](#)

**mRNA Refseq**  
[NM\\_012314](#)

**Protein Refseq**  
[NP\\_036446](#)

**MIM**  
[604955](#)

**UniProt ID**  
[P43632](#)

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<b>Chromosome Location</b>	19q13.4
<b>Pathway</b>	Antigen processing and presentation.
<b>Function</b>	receptor activity.

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