

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

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
Description	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.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5).
Molecular Weight	22.2 kDa (202 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Amino acid Sequence	MEGVHRKPSF LALPGHLVKS EETVILQCWS DVMFEHFLH REGKFNNTLH LIGEHDGVS KANFSIGPMM PVLAGTYRCY GSVPHSPYQL SAPSDPLDMV IIGLYEKPSL SAQPGPTVQA GENVTLS CSS 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

Chromosome Location	19q13.4
Pathway	Antigen processing and presentation.
Function	receptor activity.
PDBrendering based on 1b6u.Available structures:1b6u,1im9.	