

# Recombinant Human KIR2DS3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KIR2DS3-4382H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

KIR2DS3 MS Standard C13 and N15-labeled recombinant protein (NP\_036445) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description

Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response.

### Molecular Mass

33.5 kDa

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<b>AA Sequence</b>	MSLMVISMACVGGFFWLQGAWPHEGFRRKPSLLAHPGRLVKSEETVILQCWSDVMF EHFLLHREGTFNDTLRLIGEHDVSKANFSIGRMRQDLAGTYRCYGSVPHSPYQFS APSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLS CSSWSSYDMYHLSTEGEAHER RFSAGPKVNGTFQADFP LGPATQGGTYRCFGSFHDSPEYWSKSSDP LLVSVTGNP SNSWPSPTEPSSKTGNPRHLHVLIGTSVVKLPFTILLFLLHRWCSDKKNASVMDQG PAGNRTVNREDSDEQDHQEVSYATRTRPLEQKLI SEEDLAANDILDYKDDDDKV
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	KIR2DS3 killer cell immunoglobulin like receptor, two Ig domains and short cytoplasmic tail 3 [ Homo sapiens (human) ]
<b>Official Symbol</b>	KIR2DS3
<b>Synonyms</b>	KIR2DS3; killer cell immunoglobulin like receptor, two Ig domains and short cytoplasmic tail 3; NKAT7; killer cell immunoglobulin-like receptor 2DS3; MHC class I NK cell receptor; NKAT-7; killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 3; natural killer cell inhibitory receptor; natural killer-associated transcript 7

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Gene ID	3808
mRNA Refseq	NM_012313
Protein Refseq	NP_036445
MIM	604954
UniProt ID	Q14952

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