

KIR3DL1(Cytoplasmic tail, 361-444aa, His-tag, Human), Recombinant, E.coli

Cat.NO.: TP02731

3th Edition

Synonyms:Killer cell immunoglobulin-like receptor 3DL1, CD158E1, KIR, NKAT3, NKB1, NKB1B

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 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.

Form:Liquid. In 25 mM Tris-HCl buffer (pH 7.5) containing 100 mM NaCl

Molecular Weight:15 kDa (132 aa), confirmed by MALDI-TOF

Sequences:

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSTSGTIDKLDIEFHLWCSNKKNAAVMDQEPAGNRTAN
SEDSDEQDPEEVTYAQLDHCVFTRKQKITRPSQRPKTPPTDTILYTELPAKPRSKVVSCP

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.