Data Sheet (Cat.No.TMPY-05442)

TargetMol

KIR2DL3 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	KIR-K7b;CU464054.1;killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 3;NKAT2;p58;CD158b;NKAT2B;NKAT;GL183;KIR2DS5;NKAT2A;MGC129943;KIR-023GB;KIR-K7c;KIRCL23;CD158B2
Protein Construction:	A DNA sequence encoding the human KIR2DL3 (AAX23102.1) (Met1-His245) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: His 22
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q32WE4
Molecular Weight:	51.6 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Killer cell immunoglobulin-like receptor 2DL3, also known as CD158 antigen-like family member B2, KIR-23GB, Killer inhibitory receptor cl 2-3, MHC class I NK cell receptor, NKAT2a, NKAT2b, Natural killer-associated transcript 2, p58 natural killer cell receptor clone CL-6, p58.2 MHC class-I-specific NK receptor, CD158b2, and KIR2DL3, is a

single-pass type I membrane protein which belongs to the immunoglobulin superfamily. KIR2DL3 contains 2 Ig-like C2-type (immunoglobulin-like) domains. KIR2DL3 interacts with ARRB2. KIR2DL3 is a receptor on natural killer (NK) cells for HLA-C alleles (HLA-Cw1, HLA-Cw3, and HLA-Cw7). KIR2DL3 inhibits the activity of NK cells thus preventing cell lysis.

Reference

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481