Data Sheet (Cat.No.TMPY-00217)

TargetMol

KIR3DL3 Protein, Human, Recombinant (His)

General Information

Synonyms:	KIR44;KIR3DL7;CD158Z;KIRC1;killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 3;KIR2DS2
Protein Construction:	A DNA sequence encoding the human KIR3DL3 (NP_703144.2) (Met1-Leu322) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Gln 26
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8N743
Molecular Weight:	33.7 kDa (predicted)

QC Testing

Biological Activity:	Loaded Recombinant Human KIR3DL3 Protein, His Tag (Cat#TMPY-00217) on His1K Biosensor, can bind Recombinant Human B7-H7/HHLA2 Protein, hFc Tag (Cat#TMPY-00030) with an affinity constant of 51.8 nM as determined in BLI assay (Sartorius Octet RED384) (QC tested).
Purity:	> 95 % 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

KIR3DL3 (Killer Cell Immunoglobulin Like Receptor, Three Ig Domains And Long Cytoplasmic Tail 3) is a Protein Coding gene. KIR3DL3 is a framework gene of the Leukocyte Receptor Complex, present in all individuals and haplotypes analyzed to date.KIR3DL3 alleles were characterized by two families and one unrelated individual. The

most centromeric gene in the human KIR cluster is KIR3DL3. The encoded protein belongs to the immunoglobulin superfamily. KIR3DL3 has only one immunoreceptor tyrosine-based inhibitory motif and lacks the exon encoding the stem between the Immunoglobulin domains and the transmembrane region. KIR3DL3 gene is not a pseudogene but encodes a protein that is not expressed in healthy individuals. Protein expression might be induced under certain developmental or pathological situations.

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