Recombinant KI2LA protein (His tag)

Catalog Number	549573
Synonyms	CD antigen CD158f1
Species	Human
Expression System	E. coli
Accession	Q8N109
Molecular Weight	Predictes a molecular mass of 24.95 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	22-238
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 22-238 aa (Q8N109) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Killer cell immunoglobulin-like receptor 2DL5A (CD158f1) fragment (aa 22-238) is a high-purity protein designed for studying NK cell regulation. This fragment fully encompasses the Ig-like C2-type 1 and 2 domains, making it an ideal tool for investigating HLA-C recognition and inhibitory signaling mechanisms. Killer cell immunoglobulin-like receptor 2DL5A (KIR2DL5A) is a human cell membrane receptor expressed on natural killer (NK) cells that specifically recognizes HLA-C alleles. As a single-pass type I membrane protein, it functions as an inhibitory receptor that suppresses NK cell activity, thereby preventing target cell lysis and playing a crucial role in immune regulation and self-tolerance maintenance.