Recombinant ULBP3 protein (His tag)

Catalog Number	545877
Synonyms	ALCAN-gamma; NKG2D ligand 3; N2DL-3; NKG2DL3; Retinoic acid early transcript 1N
Species	Human
Expression System	E. coli
Accession	Q9BZM4
Molecular Weight	Predictes a molecular mass of 22.95 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	30-209
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 30-209 aa (Q9BZM4) 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 Human ULBP3 (UL16-binding protein 3) fragment (aa 30-209) is a high-quality protein designed for structural and functional studies. This fragment represents a stable, soluble region of ULBP3, a key ligand for the NKG2D receptor, enabling reliable investigation into natural killer cell-mediated immune responses. ULBP3, also known as ALCAN-gamma or NKG2D ligand 3, is a human protein that binds and activates the KLRK1/NKG2D receptor, playing a critical role in natural killer cell cytotoxicity. This interaction is essential for immune surveillance and the elimination of target cells. The full-length protein is localized to the cell membrane via a GPI-anchor, facilitating its function in immune recognition. The recombinant fragment (aa 30-209) was selected based on computational predictions to ensure stability and solubility, making it ideal for biochemical and structural analyses without compromising functional relevance.