Recombinant NCTR3 protein (His tag)

Catalog Number	546431
Synonyms	Activating natural killer receptor p30; Natural killer cell p30-related protein; NK-p30; NKp30; CD antigen CD337
Species	Human
Expression System	E. coli
Accession	O14931
Molecular Weight	Predictes a molecular mass of 14.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	19-135
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 19-135 aa (O14931) 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 NCR3 (NKp30) Fragment (aa 19-135) - A high-purity protein fragment encompassing the complete Ig-like domain of the Natural Cytotoxicity Triggering Receptor 3, ideal for studying NK cell activation mechanisms and cytotoxicity regulation. Natural cytotoxicity triggering receptor 3 (NCR3/NKp30/CD337) is a critical cell membrane receptor expressed on natural killer (NK) cells that activates cytotoxic responses upon binding to extracellular ligands including BAG6 and NCR3LG1. This receptor plays a fundamental role in controlling NK cell cytotoxicity against tumor cells and infected cells. Additionally, NCR3 engagement promotes myeloid dendritic cell maturation through both direct cytotoxic effects and the induction of TNF-α and IFN-γ release from NK cells. As a single-pass type I membrane protein located at the cell surface, NCR3 serves as a key regulator of innate immune responses and represents an important therapeutic target for cancer immunotherapy and immune regulation studies.