Recombinant NKTR protein (His tag)

Catalog Number	546907
Synonyms	NK-TR protein; Natural-killer cells cyclophilin-related protein; Peptidyl-prolyl cis-trans isomerase NKTR; PPIase; Rotamase
Species	Human
Expression System	E. coli
Accession	P30414
Molecular Weight	Predictes a molecular mass of 21.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-178
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-178 aa (P30414) 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 NK-tumor recognition protein (NK-TR protein) fragment (amino acids 1-178) from Homo sapiens, encompassing the full PPIase cyclophilin-type domain. This high-purity protein is ideal for investigating peptidyl-prolyl cis-trans isomerase activity and its role in natural killer cell-mediated tumor recognition. The full-length NK-tumor recognition protein (NKTR) is a peptidyl-prolyl cis-trans isomerase (PPIase) that catalyzes the cis-trans isomerization of proline imidic peptide bonds, facilitating proper protein folding. It functions as a component of a tumor-recognition complex in natural killer (NK) cells, contributing to immune surveillance mechanisms. The protein is localized to the cell membrane, where it participates in critical cellular recognition processes. This recombinant fragment retains the complete functional PPIase cyclophilin-type domain, enabling focused studies on its enzymatic activity and involvement in NK cell biology.