Recombinant NECT3 protein (His tag)

Catalog Number	548331
Synonyms	CDw113; Nectin cell adhesion molecule 3; Poliovirus receptor-related protein 3; CD antigen CD113
Species	Human
Expression System	E. coli
Accession	Q9NQS3
Molecular Weight	Predictes a molecular mass of 34.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	58-360
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 58-360 aa (Q9NQS3) 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 Nectin-3 (CDw113) Fragment (aa 58-360) is a high-purity protein designed for studying cell adhesion mechanisms. This fragment encompasses the essential Ig-like V-type and C2-type domains, making it an ideal tool for investigating heterophilic interactions, axon guidance, and junction formation in cellular and molecular research. Nectin-3 is a key cell adhesion molecule in humans that promotes intercellular connections through heterophilic trans-interactions with partners like NECTIN2 and PVR, activating signaling pathways involving CDC42 and RAC small G proteins via SRC and RAP1. It is involved in critical biological processes including the formation of Sertoli-spermatid junctions, axon guidance at commissural-floor plate contacts, and the development of adherens junctions and synapses. In the auditory epithelium, it helps establish a checkerboard pattern between hair cells and supporting cells through interaction with NECTIN1. Localized to the cell membrane, postsynaptic membranes, and adherens junctions, Nectin-3 plays a role in cellular morphology and down-regulates PVR to modulate cell movement and proliferation.