Recombinant NAR4 protein (His tag)

Catalog Number	547891
Synonyms	ADP-ribosyltransferase C2 and C3 toxin-like 4; ARTC4; Dombrock blood group carrier molecule; Mono(ADP-ribosyl)transferase 4; NAD(P)(+)--arginine ADP-ribosyltransferase 4; CD antigen CD297
Species	Human
Expression System	E. coli
Accession	Q93070
Molecular Weight	Predictes a molecular mass of 29.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	50-285
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 50-285 aa (Q93070) 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 Ecto-ADP-ribosyltransferase 4 (ARTC4) Fragment (residues 50-285) is a high-purity protein designed for studying mono(ADP-ribosyl)transferase activity and blood group antigen research. This fragment fully encompasses the TR mART core domain, making it an ideal tool for investigating domain-specific functions in cell signaling and immune responses. Ecto-ADP-ribosyltransferase 4 (ARTC4), also known as the Dombrock blood group carrier molecule and CD297 antigen, is a membrane-anchored enzyme that catalyzes the transfer of ADP-ribose groups to target proteins using NAD+ as a substrate. As an ecto-enzyme with GPI-anchor attachment to the cell membrane, ARTC4 functions in extracellular ADP-ribosylation, potentially modulating cell-surface receptors and adhesion molecules. The protein's identification as the carrier of the Dombrock blood group antigens highlights its clinical significance in transfusion medicine and immunology, where it may influence immune cell interactions and signaling pathways at the cell surface.