# Recombinant PARPT protein (His tag)

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| **Catalog Number** | 547589 |
| **Synonyms** | ADP-ribosyltransferase diphtheria toxin-like 14; ARTD14; Poly [ADP-ribose] polymerase 7; PARP-7; TCDD-inducible poly [ADP-ribose] polymerase |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q7Z3E1 |
| **Molecular Weight** | Predictes a molecular mass of 26.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band. |

## Product Information

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| **Sequence Region** | 448-657 |
| **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 448-657 aa (Q7Z3E1) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human TIPARP (PARP-7) Fragment (448-657): A high-purity protein fragment encompassing the full PARP catalytic domain, designed for studying mono-ADP-ribosylation mechanisms and AHR signaling regulation in vitro.<br>TIPARP (also known as PARP-7 or ARTD14) is a mono-ADP-ribosyltransferase that modifies target proteins by adding single ADP-ribose units to glutamate, aspartate, and cysteine residues. It functions as a key negative regulator of the aryl hydrocarbon receptor (AHR) pathway through mono-ADP-ribosylation, thereby inhibiting AHR's transcription activator activity. Located primarily in the nucleus, TIPARP plays crucial roles in cellular signaling and stress response pathways, making it an important subject for biochemical and pharmacological research. |