# Product Data Sheet

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| Product Name: | PARP2 Human |
| Cat. No.: | GP22049 |
| Batch No.: | 1 |

## Product Data

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| Purity | >98% | Source | Escherichia Coli. |
| Phycical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | ADPRT2; ADPRTL2; ADPRTL3; ARTD2; pADPRT-2; PARP-2; Poly [ADP-ribose] polymerase 2; hPARP-2; ADP-ribosyltransferase diphtheria toxin-like 2; NAD (+) ADP-ribosyltransferase 2; Poly [ADP-ribose] synthase 2. | | |
| Amino Acid Sequence | MGSSHHHHHH SSGLVPRGSH MGSHMQLDLR VQELIKLICN VQAMEEMMME MKYNTKKAPL GKLTVAQIKA GYQSLKKIED CIRAGQHGRA LMEACNEFYT RIPHDFGLRT PPLIRTQKEL SEKIQLLEAL GDIEIAIKLV KTELQSPEHP LDQHYRNLHC ALRPLDHESY EFKVISQYLQ STHAPTHSDY TMTLLDLFEV EKDGEKEAFR EDLHNRMLLW HGSRMSNWVG ILSHGLRIAP PEAPITGYMF GKGIYFADMS SKSANYCFAS RLKNTGLLLL SEVALGQCNE LLEANPKAEG LLQGKHSTKG LGKMAPSSAH FVTLNGSTVP LGPASDTGIL NPDGYTLNYN EYIVYNPNQV RMRYLLKVQF NFLQLW. | | |
| Formulation | The PARP2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol. | | |

## Introduction

Poly (ADP-Ribose) Polymerase 2 (PARP2) contains a catalytic domain which is homologous to that of poly (ADP-ribosyl) transferase but lacks an N-terminal DNA binding domain which activates the C-terminal catalytic domain of poly (ADP-ribosyl) transferase. PARP2 is capable of catalyzing a poly (ADP-ribosyl)ation reaction. The basic residues within the N-terminal area of this protein can bear potential DNA-binding properties, and can be engaged in the nuclear and/or nucleolar targeting of the protein. There has been found two alternatively spliced transcript variants encoding distinct isoforms.

## Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer


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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

## Background

PARP2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 376 amino acids (233-583a.a) and having a molecular mass of 42.5kDa. PARP2 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.