

**AR50827PU-S****Human PARP2 (233-583, His-tag) - Purified****Alternate names:**

ADPRT2, ADPRTL2, EC=2.4.2.30, NAD(+) ADP-ribosyltransferase 2, PARP 2, PARP-2, Poly [ADP-ribose] polymerase 2, Poly[ADP-ribose] synthetase 2, pADPRT-2

**Quantity:**

0.1 mg

**Concentration:**

1 mg/ml (determined by Bradford assay)

**Background:**

PARP2 is poly(ADP-ribosyl)transferase-like 2 protein, which contains a catalytic domain and is capable of catalyzing a poly(ADP-ribosyl)ation reaction. This protein has 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. The basic residues within the N-terminal region of this protein may bear potential DNA-binding properties, and may be involved in the nuclear and/or nucleolar targeting of the protein. Two alternatively spliced transcript variants encoding distinct isoforms have been found.

**Uniprot ID:**[Q9UGN5](#)**NCBI:**[NP\\_005475](#)**GenelD:**[10038](#)**Species:**

Human

**Source:**

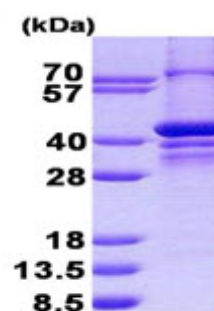
E. coli

**Format:****State:** Liquid purified protein**Purity:** >85% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol**Description:**

Recombinant human PARP2 protein, fused to His-tag at N-terminus, was expressed in E.coli.

**AA Sequence:**MGSSHHHHHH SGLVPRGSH MSHMQLDLR VQELIKLICN VQAMEEMME MKYNTKKAPL  
GKLTVAQIKA GYQSLKKIED CIRAGQHGRA LMEACNEFYT RIPHDFGLRT PPLIRTQKEL  
SEKIQLLEAL GDIEIAIKLV KTELQSP EHP LDQHYNLHC ALRPLDHESY EFKVISQYLQ  
STHAPTHSDY TMTLLDLFEV EKDGEKEAFR EDLHNRMLLW HGSRMSNWVG ILSHGLRIAP  
PEAPITGYMF GKGIYFADMS SKSANYCFAS RLKNTGLLLL SEVALGQCNE LLEANPKAEG  
LLQGKHSTKG LGKMAPSSAH FVTLLNGSTVP LGPASDTGIL NPDGYTLNLYN EYIVYNPNQV  
RMRYLLKVQF NFLQLW**Molecular weight:** 42.5 kDa (376aa)**Storage:**Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.  
Avoid repeated freezing and thawing. Shelf life: one year from despatch.**General Readings:**Schreiber V., et al. (2002) J. Biol. Chem. 277:23028-23036  
Karlberg T., et al. (2010) Biochemistry. 49:1056-1058

Pictures:



15% SDS-PAGE (3ug)