

Active Recombinant Human PARP3, HA-tagged

Cat. No. PARP3-454H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human full-length PARP-3 [ARTD3] is fused to a HA-tag and a His-tag.
Species	Human
Source	Sf21 Cells
Description	PARP-3 [ARTD3] is involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. May link the DNA damage surveillance network to the mitotic fidelity checkpoint. Negatively influences the G1/S cell cycle progression without interfering with centrosome duplication. May be involved in the regulation of PRC2 and PRC3 complex-dependent gene silencing.
Form	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 100mM sodium chloride and 50mM imidazole, 0.2% NP-40 and 10% glycerol.
Bio-activity	≥10U/mg protein (only monoADP-ribosyl transferase activity).
Purity	≥98% (SDS-PAGE)
Stability	Stable for at least 6 months after receipt when stored at -80°C.
Storage	Short Term Storage: -20°C; Long Term Storage: -80°C. After opening, prepare

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

aliquots and store at -80°C. Avoid freeze/thaw cycles.

Concentration Lot dependent (0.2-1mg/ml)

GENE INFORMATION

Gene Name PARP3 poly (ADP-ribose) polymerase family, member 3 [Homo sapiens]

Official Symbol PARP3

Synonyms

PARP3; poly (ADP-ribose) polymerase family, member 3; ADP ribosyltransferase (NAD⁺; poly (ADP ribose) polymerase) like 3 , ADPRTL3; poly [ADP-ribose] polymerase 3; ADPRT3; hPARP 3; IRT1; NAD⁺ ADP ribosyltransferase 3; pADPRT 3; poly(ADP ribose) polymerase 3; poly(ADP ribose) synthetase 3; ADPRT-3; poly[ADP-ribose] synthase 3; NAD⁺ ADP-ribosyltransferase 3; poly(ADP-ribose) synthetase-3; poly[ADP-ribose] synthetase 3; NAD(+) ADP-ribosyltransferase 3; ADP-ribosyltransferase (NAD⁺; poly (ADP-ribose) polymerase)-like 2; poly (ADP-ribose) polymerase)-like 3; ADPRTL2; ADPRTL3; PADPRT-3;

Gene ID 10039

mRNA Refseq NM_001003931

Protein Refseq NP_001003931

MIM 607726

UniProt ID Q9Y6F1

Chromosome Location 3p22.2-p21.1

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Pathway	BER complex, organism-specific biosystem; BER complex, conserved biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem;
Function	NAD+ ADP-ribosyltransferase activity; catalytic activity; transferase activity, transferring glycosyl groups;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA