

# Active Recombinant Human PARP3, HA-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human full-length PARP-3 [ARTD3] is fused to a HA-tag and a His-tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Sf21 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 50mM TRIS-HCl, pH 7.5, containing 100mM sodium chloride and 50mM imidazole, 0.2% NP-40 and 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Bio-activity</b>     | ≥10U/mg protein (only monoADP-ribosyl transferase activity).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | ≥98% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Stability</b>        | Stable for at least 6 months after receipt when stored at -80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>          | Short Term Storage: -20°C; Long Term Storage: -80°C. After opening, prepare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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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<sup>+</sup>; poly (ADP ribose) polymerase) like 3 , ADPRTL3; poly [ADP-ribose] polymerase 3; ADPRT3; hPARP 3; IRT1; NAD<sup>+</sup> ADP ribosyltransferase 3; pADPRT 3; poly(ADP ribose) polymerase 3; poly(ADP ribose) synthetase 3; ADPRT-3; poly[ADP-ribose] synthase 3; NAD<sup>+</sup> ADP-ribosyltransferase 3; poly(ADP-ribose) synthetase-3; poly[ADP-ribose] synthetase 3; NAD(+) ADP-ribosyltransferase 3; ADP-ribosyltransferase (NAD<sup>+</sup>; 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

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

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