

PARP Recombinant Protein | PARP1 recombinant protein

PARP Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA257485

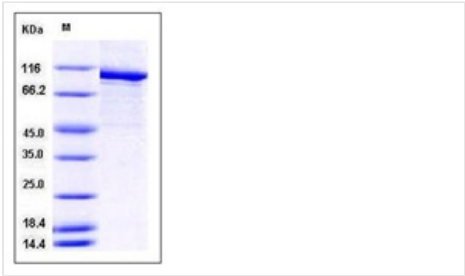
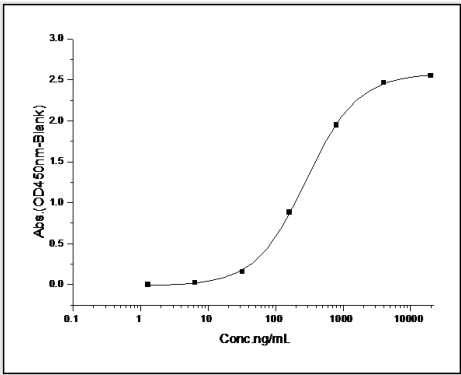
HOST
Baculovirus-Insect Cells

PRODUCT SYNONYMS

PARP; PARP Protein; Mouse; Recombinant (His Tag); Mouse PARP-1/PARP Protein (His Tag); poly (ADP-ribose) polymerase 1; 5830444G22Rik Protein; Adprp Protein; Adprt1 Protein; AI893648 Protein; ARTD1 Protein; C80510 Protein; parp-1 Protein; PPOL Protein; sPARP-1 Protein; PARP1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>85 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH8.0, 10% gly, 0.1mM TCEP Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	1033aa
Sequence	Met1-Trp1014
Species	Mouse
Tag	N-His
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Met
Protein Construction	JA DNA sequence encoding the mouse PARP1 (NP_031441.2) (Met 1-Trp 1014) was fused with a polyhistidine tag at the N-terminus
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized mouse PARP1 at 10ug/mL (100ul/well) can bind biotinylated human HSP70. The EC50 of biotinylated human HSP70 is 0.021ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack



Application Data

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Measured by its binding ability in a functional ELISA. Immobilized mouse PARP1 at 10 ug/mL (100 ul/well) can bind biotinylated human HSP70, The EC50 of biotinylated human HSP70 is 0.021 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for PARP1 recombinant protein	Poly (ADP-ribose) polymerase 1(PRAP1), also known as NAD(+) ADP-ribosyltransferase 1(ADPRT), is a chromatin-associated enzyme that modifies various nuclear proteins by poly(ADP-ribosyl)ation. The ADP-D-ribosyl group of NAD+ is transferred to an acceptor carboxyl group on a histone or the enzyme itself, and further ADP-ribosyl groups are transferred to the 2'-position of the terminal adenosine moiety, building up a polymer with an average chain length of 2-3 units. The poly(ADP-ribosyl)ation modification is critical for a wide range of processes, including DNA repair, regulation of chromosome structure, transcriptional regulation, mitosis and apoptosis. PARP1 is demonstrated to mediate the poly(ADP-ribose) ation of APLF (aprataxin PNK-like factor) and CHFR (checkpoint protein with FHA and RING domains), two representative proteins involved in the DNA damage response and checkpoint regulation. Further, It has been suggested that DNA-dependent protein kinase (DNA-PK), another component of DNA repair, suppresses PARP activity, probably through direct binding and/or sequestration of DNA-ends which serve as an important stimulator for both enzymes. PARP1 inhibitors are thus proposed as a targeted cancer therapy for recombination deficient cancers, such as BRCA2 tumors.
Product Categories/Family for PARP1 recombinant protein	Cancer Drug Targets
References	Malanga M. et al., 1998, J Biol Chem. 273: 11839-11843. Ariumi Y. et al., 1999, Oncogene. 18: 4616-4625. Helleday T. et al., 2005, Cell Cycle. 4: 1176-1178. Ahell I. et al., 2008, Nature. 451: 81-85.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20806109
NCBI GeneID	11545
NCBI Accession #	NP_031441.2
NCBI GenBank Nucleotide #	NM_007415.2
UniProt Accession #	Q921K2; P11103
Molecular Weight	112,721 Da
NCBI Official Full Name	poly
NCBI Official Synonym Full Names	poly (ADP-ribose) polymerase family, member 1
NCBI Official Symbol	Parp1
NCBI Official Synonym Symbols	PARP; PPOL; ARTD1; Adprp; Adprt1; C80510; parp-1; sPARP-1; AI893648; 5830444G22Rik

NCBI Protein Information	poly [ADP-ribose] polymerase 1; poly [ADP-ribose] polymerase 1; msPARP; ADPRT 1; poly[ADP-ribose] synthase 1; poly[ADP-ribose] synthetase 1; NAD(+) ADP-ribosyltransferase 1; ADP-ribosyltransferase diphtheria toxin-like 1; ADP-ribosyltransferase (NAD+, pol
UniProt Protein Name	Poly (ADP-ribose) polymerase family, member 1
UniProt Gene Name	Parp1
UniProt Synonym Gene Names	Adprt1
UniProt Entry Name	Q921K2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/parp1-recombinant-protein-baculovirus-insect-cells/257485>