Recombinant Mouse Poly (ADP-ribose) Polymerase Family, Member 2

Cat. No. Parp2-613M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Parp2 was produced in*Sf9 cells*(full length).
Species	Mouse
Source	Sf9 Cells
Description	This gene encodes 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.
Purity	≥98% (SDS-PAGE). Affinity purified.
Formulation	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 1mM DTT, 0.5mM EDTA, 0.5mM PMSF and 20% glycerol.
Concentration	~1mg/ml.
Specific Activity	≥200U/mg protein. One unit is defined as the amount of enzyme that synthesizes 1nmol of poly(ADP-ribose) per min at 25°C, pH 7.5. See also separate protocol (link below).

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Storage	Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -80°C.
Full Length	Full L.

GENE INFORMATION

Gene Name	Parp2 poly (ADP-ribose) polymerase family, member 2 [Mus musculus]
Synonyms	Parp2; poly (ADP-ribose) polymerase family, member 2; Adprt2; C78626; PARP-2; Adprtl2; Aspartl2; poly [ADP-ribose] polymerase 2; ADPRT-2; mPARP-2; pADPRT-2; poly[ADP-ribose] synthase 2; poly[ADP-ribose] synthetase 2; NAD(+) ADP-ribosyltransferase 2; ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase) 2; ADP-ribosyltransferase (NAD+, poly(ADP-ribose) polymerase)-like 2; ADP-ribosyltransferase (NAD+; poly(ADP-ribose) polymerase)-like 2; EC 2.4.2.30
Gene ID	11546
mRNA Refseq	NM_009632
Protein Refseq	NP_033762
UniProt ID	O88554
Chromosome Location	14 C1; 14 19.5 cM
Pathway	Base excision repair
Function	DNA binding; NAD+ ADP-ribosyltransferase activity; protein binding; transferase activity; transferase activity, transferring glycosyl groups

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