

Recombinant PARP8 protein

Catalog No: 82163, 82763

Expressed In: Baculovirus

Quantity: 20, 1000 µg

Source: Human

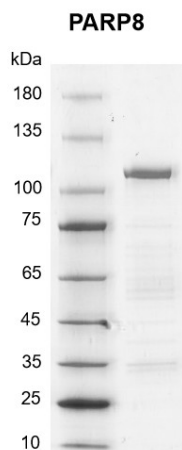
Buffer Contents: Recombinant PARP8 protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.

Background: PARP8 is an atypical member of the **poly(ADP-ribose) polymerase (PARP)** family with mono-ADPribosyltransferase (MARylase) activity. Unlike canonical PARPs involved in DNA repair, PARP8 localizes to the nuclear envelope and modifies specific target proteins, playing a role in nuclear pore complex biology, cellular stress response, and potentially in regulating gene expression. Its precise physiological functions and involvement in disease are still under active investigation, but it represents a distinct regulatory component within the broader **PARP**-mediated signaling network.

Protein Details: Recombinant PARP8 protein was expressed in baculovirus expression system as the full length protein (accession number NP_078891.2) with a N-terminal FLAG tag. The molecular weight of the protein is 97.14 kDa.

Application Notes: This product was manufactured as described in Protein Details. Where possible, Active Motif has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for this product is shown.

Storage and Guarantee: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.

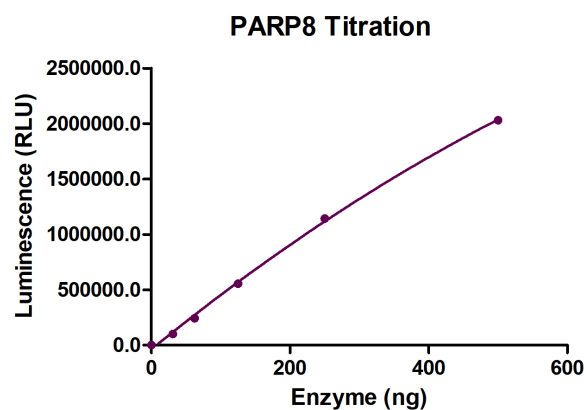


Recombinant PARP8 protein gel

4-20% SDS-PAGE gel

MW: 97.14 kDa

Purity: >90%



ELISA for PARP8 activity

25 μ M NAD-Biotin and Activated DNA were added into ELISA plate (coated with histone H2A and H2B mixture) with PARP8 in ADPR Buffer and incubated for 1 hour at room temperature. Following Streptavidin-HRP and ECL incubation, the plate was read in a luminometer or microtiter plate reader.