

Recombinant PARP14 (737-1801) protein

Catalog No: 82176, 82776

Expressed In: Baculovirus

Quantity: 20, 1000 µg

Source: Human

Buffer Contents: Recombinant PARP14 (737-1801) protein is in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.

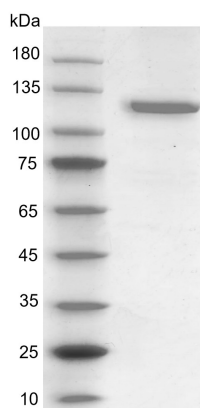
Background: Recombinant human **PARP14 (poly(ADP-ribose) polymerase 14)**, also known by its gene symbol **PARP14 (poly(ADP-ribose) polymerase 14)** and alternative names including ARTD8 (diphtheria toxin-like ADP-ribosyltransferase 8), BAL2 (B-aggressive lymphoma 2), and COAT6, is a mono-ADP-ribosyltransferase that catalyzes the transfer of ADP-ribose from NAD⁺ to target proteins, thereby regulating diverse cellular processes including DNA repair, transcription, and cell signaling. This recombinant form, typically produced in expression systems such as E. coli or insect cells, retains the key structural and biochemical properties of the native protein, including its macrodomains that bind ADP-ribose and its WWE domain involved in protein-protein interactions, along with the catalytic PARP domain responsible for mono-ADP-ribosylation activity. **PARP14 (poly(ADP-ribose) polymerase 14)** functions primarily as a pro-survival factor by promoting STAT6-dependent gene expression, inhibiting apoptosis through interactions with the JNK signaling pathway, and serving as a key regulator of B cell differentiation and macrophage activation, while also contributing to the DNA damage response and playing context-dependent roles in cancer progression and immune cell function.

Protein Details: Recombinant PARP14 (737-1801) protein that includes amino acids 737-1801 of human PARP14 protein (accession number NP_060024.2) was expressed in a baculovirus expression system, and contains an N-terminal FLAG tag. The molecular weight of the protein is 119.68 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.

PARP14 (737-1801)



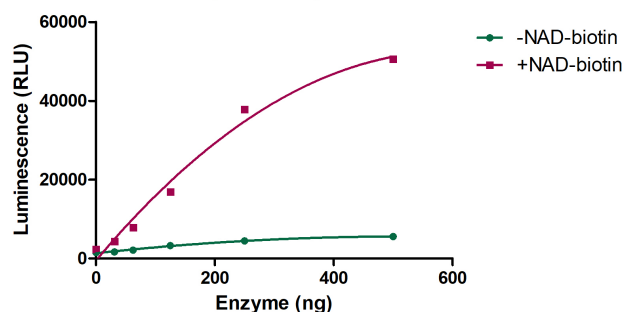
Recombinant PARP14 (737-1801) protein gel

4-20% SDS-PAGE gel

MW: 119.68 kDa

Purity: >95%

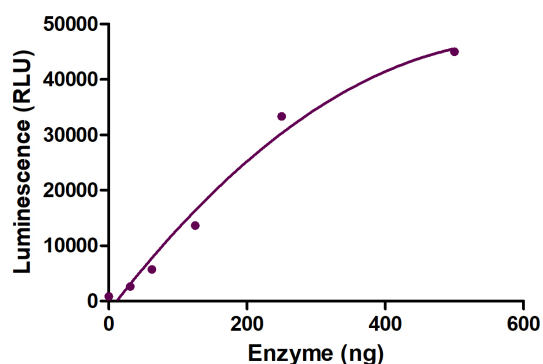
PARP14 (737-1801) Titration



ELISA for PARP14 (737-1801) activity

25 μ M NAD-Biotin was added into ELISA plate (coated with histone H2A and H2B mixture) with PARP14 (737-1801) 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.

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