

ADPRS/ARH3 recombinant protein

Recombinant ADPRS/ARH3 protein

CATALOG #
AAA60368

HOST
E coli

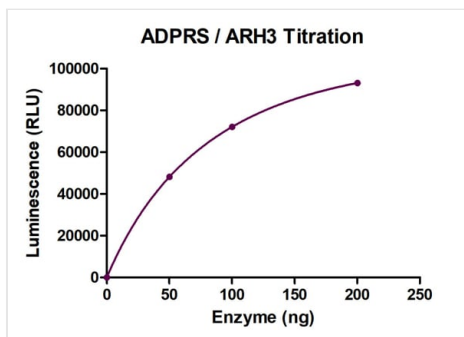
PRODUCT SYNONYMS

ADPRS/ARH3; Recombinant ADPRS/ARH3 protein; ADP-Ribosylserine Hydrolase; ARH3; ADPRHL2; ADPRS; FLJ20446; ADPRS/ARH3 recombinant protein

PRODUCT SPECIFICATIONS

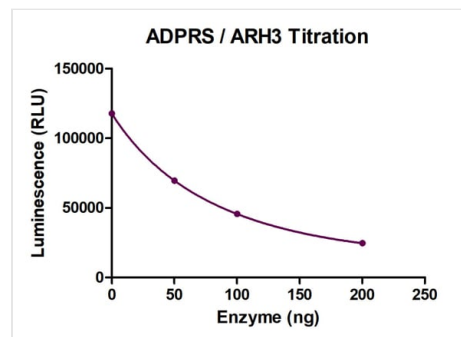
Host	E coli
Form/Format	Recombinant ADPRS/ARH3 protein is supplied in 25 mM Tris 8.0, 300mM NaCl, 20% glycerol, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant ADPRS/ARH3 protein that includes full length of the human ADPRS/ARH3 protein (accession number NP_060295.1) was expressed in E coli cells with an N-terminal His tag. The molecular weight of the protein is 41.11kDa.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



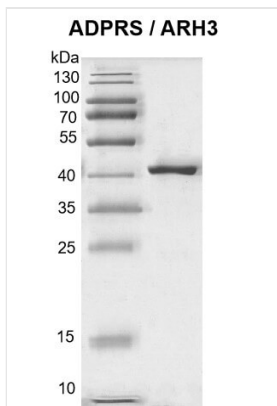
ELISA

ELISA for ADPRS/ARH3 activity 25uM NAD-Biotin and Activated DNA were added into ELISA plate (coated with histone H2A and H2B mixture) with PARP1 in ADPR Buffer and incubated for 1 hour at room temperature. After washing, different concentrations of ADPRS/ARH3 was added into each well and incubated in reaction buffer 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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SDS-PAGE

Recombinant ADPRS/ARH3 protein 12.5% SDS-PAGE Coomassie staining MW: 41.11kDa
Purity: >=95%

ADDITIONAL INFORMATION

Related Product Information for ADPRS/ARH3 recombinant protein

Protein ADP-ribosylation is a highly dynamic post-translational modification. The rapid turnover is achieved, among others, by ADP (ribosyl)hydrolases (ARHs), an ancient family of enzymes that reverses this modification. Recently ARHs came into focus due to their role as regulators of cellular stresses and tumor suppressors. ADPRS/ARH3 (ADPribosylhydrolase ARH3) as one of ARHs, it plays a variety of functions in organisms. It preferentially hydrolyzes the scissile alpha-O-linkage attached to the anomeric C1" position of ADP-ribose and acts on different substrates, such as proteins ADP-ribosylated on serine and threonine, free poly(ADP-ribose) and O-acetyl-ADP-D ribose. Specifically acts as a serine mono-ADP-ribosylhydrolase by mediating the removal of mono-ADP-ribose attached to serine residues on proteins, thereby playing a key role in DNA damage response. Also able to degrade protein free poly(ADP-ribose), which is synthesized in response to DNA damage: free poly(ADP-ribose) acts as a potent cell death signal and its degradation by ADPRHL2 protects cells from poly(ADP-ribose)-dependent cell death, a process named parthanatos.

Product Categories/Family for ADPRS/ARH3 recombinant protein

DNA Damage; **Recombinant Proteins**

NCBI AND UNIPROT INFORMATION

Molecular Weight

41.11kDa

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://www.aaabiotech.com/adprs/arh3-recombinant-protein-e-coli/60368>