

ADPRH/ARH1 Protein, Human (His)

Cat. No.:	HY-P7462
Synonyms:	rHuADP-ribosylarginine hydrolase, His; ADPRH; ARH-1; ADP-ribosylarginine hydrolase
Species:	Human
Source:	E. coli
Accession:	P54922 (M1-L357)
Gene ID:	141
Molecular Weight:	Approximately 39.0 kDa

PROPERTIES

AA Sequence	<pre> HHHHHHMEKY VAAMVLSAAG DALGYNGKW EFLQDGEKI H RQLAQLGLLD ALDVGRWRVS DDTVMHLATA EALVEAGKAP KLTQLYLLLA KHYQDCMEDM DGRAPGGASV HNAMEQLKPGK PNGWRIPFNS HEGGCGAAMR AMCIGLRFPH HSQLDTLIQV SIESGRMTHH HPTGYLGALA SALFTAYAVN SRPPLQWGKG LMELLPEAKK YIVQSGYFVE ENLQHWSYFQ TKWENYLKLR GILDGESAPT FPESFGVKER DQFYTSLSYS GWGGSSGHDA PMIAYDAVLA AGDSWKELAH RAFFHGGDSD STAAIAGCWW GVMYGFKGV S PSNYEKLEYR NRLEETARAL YSLGSKEDTV ISL </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM PB, 150 mM NaCl, 50% Glycerol, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	ADP-ribosylarginine hydrolase (ADPRH; ARH-1) belongs to the ADP-ribosylglycohydrolase family. ADPRH cleaves α-ADP-
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ribose-arginine (protein), produced in the transferase-catalyzed reaction, to regenerate the arginine-guanidino group. ADPRH catalyzes removal of mono-ADP-ribose from arginine residues of proteins in the ADP-ribosylation cycle. The dysregulation of mono-ADP ribosylation of arginines in proteins by ADPRH can affect cell proliferation and tumorigenesis. ADPRH cDNAs from human, rat, and mouse tissues share 82% similarity of deduced amino acid sequences^{[1][2]}.

REFERENCES

[1]. Watanabe K, et al. Enhanced sensitivity to cholera toxin in female ADP-ribosylarginine hydrolase (ARH1)-deficient mice. PLoS One. 2018 Nov 30;13(11):e0207693.

[2]. Kato J, et al. ADP-ribosylarginine hydrolase regulates cell proliferation and tumorigenesis. Cancer Res. 2011 Aug 1;71(15):5327-35.

Caution: Product has not been fully validated for medical applications. For research use only.

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