

Product Data Sheet

ART1 Protein, Cynomolgus (HEK293, His)

Cat. No.:	НҮ-Р76734
Synonyms:	NAD(P)(+)arginine ADP-ribosyltransferase; Mono(ADP-ribosyl)transferase
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005579037 (Q23-N294)
Gene ID:	102142531
Molecular Weight:	Approximately 33-34 kDa due to the glycosylation.

PROPERTIES					
AA Sequence	Q S H P I T R R D L D L N H T E F Q A N P P P P P L G F R D A H Y L H H F S F K G L H F R P A G P G T C L G A P I K G Y R I Y L R A L G K R	F S Q E M P L D M A K V Y A D G W T L A E H G V A L L A Y T T L H F L L T E A L A T V R L G G F A S S F F P G E E E V L S T Y N C E Y I K D	L A S F D D Q Y A G S S Q W Q E R Q A W A N S P L H K E F N Q L L G R G Q R P P A S L K N V A A Q Q I P P F E T F Q V I K K C K S G P C H L	C A A A M T A A L P G P E W S L S P T R A A V R E A G R S R R C H Q V F R G V H F G E D T F F G I W N A S R P A Q G P A D N	
Biological Activity	Measured in a cell proliferation assay using A549 cells. The ED ₅₀ for this effect is 17.43 ng/mL. Corresponding to a specific activity is 5.737×10^4 Unit/mg.				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.				
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				
Storage & Stability	Stored at -20°C for 2 years recommended to freeze a	s. After reconstitution, it is st liquots at -20°C or -80°C for o	able at 4°C for 1 week or -20° extended storage.	°C for longer (with carrier protein). It is	
Shipping	Room temperature in con	tinental US; may vary elsew	here.		

DESCRIPTION	
Background	NAD(P)(+)arginine ADP-ribosyltransferase (ART1), an arginine-specific ADP-ribosyltransferase, catalyzes the transfer of ADP-ribose moiety to arginine residues on an acceptor protein using nicotinamide adenine dinucleotide (NAD+) as a

substrate, thus eliciting changes in the activities and functions of the acceptor proteins. ART1 is involved in the regulation of a diverse array of pathophysiological processes, including proliferation, invasion, apoptosis, autophagy and angiogenesis of colorectal cancer (CRC) cells. ART1 plays a crucial role in the elevation of glucose consumption in CT26 cells and may regulate GLUT1-dependent glycolysis in CRC via the PI3K/AKT/HIF1 α pathway. In addition, ART1 plays a role in glycolysis and energy metabolism under high glucose conditions and promotes angiogenesis in colorectal cancer cells through the PI3K/AKT pathway^[1].

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

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