

## Product Data Sheet

## ART3 Protein, Human (HEK293, His)

Cat. No.:	HY-P74409
Synonyms:	Ecto-ADP-ribosyltransferase 3; ARTC3; ART3; TMART
Species:	Human
Source:	HEK293
Accession:	AAH08397 (M1-S362)
Gene ID:	419
Molecular Weight:	Approximately 49 kDa

DDODEDTIES	
PROPERTIES	
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

BackgroundART3 is a member of the mono-ADP-ribosyltransferase family genes which is involved in cell division, DNA-repair and the<br/>regulation of the inflammatory response. ART3 mRNA can be detected in unstimulated monocytes, alveolar epithelial cells,<br/>spermatocytes in testes, macrophages, T lymphocytes and other cell types. The expression of ART3 is associated with<br/>physiological and pathological functions, including spermatogenesis and damage to the number of cardiomyocytes. The<br/>temporary and restricted expression of ART3 in spermatogenesis. And ART3 protein is significantly overexpressed in<br/>human TNBC tumors tissue and cell lines through. Overexpression of ART3 in MDA-MB-231 breast cancer cells increased cell<br/>proliferation, invasion, and survival in vitro and growth of xenograft tumors by activating Akt and ERK. Moreover, ART3 may<br/>play important roles in central nervous system (CNS) pathophysiology after traumatic brain injury (TBI)<sup>[1][2]</sup>.

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

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