

## ART3 Protein, Human, Recombinant (His)

### General Information

Synonyms:	ADP-ribosyltransferase 3;ARTC3
Protein Construction:	A DNA sequence encoding the human ART3(AAH08397.1) (Met1-Ser362) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Glu 27
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH08397.1
Molecular Weight:	39.6 kDa (predicted); 49 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**  
It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**  
In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

ART3 is an arginine-specific ADP-ribosyltransferase which belongs to the Arg-specific ADP-ribosyltransferase family. ART3 catalyzes a reversible reaction which modifies proteins by the addition or removal of ADP-ribose to an arginine residue to regulate the function of the modified protein. It is expressed specifically in testis. ART3 pseudogene is located on chromosome 11. ART3 was identified as a susceptibility gene for non-obstructive azoospermia (NOA). It is a novel therapeutic target in the treatment of NOA.

### Reference

Lévy I, et al. (1996) Human testis specifically expresses a homologue of the rodent T lymphocytes RT6 mRNA. FEBS Lett. 382(3):276-80.

Suzuki Y, et al. (1997) Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene. 200 (1-2):149-56.

Balducci E, et al. (1999) Selective expression of RT6 superfamily in human bronchial epithelial cells. Am J Respir. 21 (3):337-46.

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