

# Athens Research and Technology, Inc.

## SDS - SAFETY DATA SHEET

### 1. IDENTIFICATION

PRODUCT NAME	<b>Antithrombin III, Human Plasma</b>
PRODUCT NO.	<b>16-16-012020</b>
BRAND	<b>Athens Research and Technology</b>
Use of substance	Research Reagent

SUPPLIER	Athens Research and Technology 110 Trans Tech Drive Athens, GA 30601 USA
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### 2. HAZARDS IDENTIFICATION

OSHA Hazards	No known OSHA Hazards
Other Hazards which do not result in classification	Human Source: Appropriate safety procedure must be followed for human source material as found in: <i>Laboratory Biosafety Guidelines (3<sup>rd</sup> Ed., 2004)</i> Handle as if capable of transmitting infectious agents.

GHS Classification	Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)
Signal Word	Warning

#### Hazard Statements:

<b>H303</b>	<b>Ingestion</b>	May be harmful if swallowed
<b>H313/H316</b>	<b>Skin</b>	May be harmful if absorbed through the skin. May cause irritation.
<b>H319</b>	<b>Eyes</b>	May cause eye irritation
<b>H333/H335</b>	<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.

HMIS Classification:		NFPA Rating:	
<b>HEALTH</b>	<b>0</b>	<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>0</b>	<b>FIRE</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>	<b>REACTIVITY</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	Safety Glasses/gloves	<b>SPECIAL</b>	

16-16-012020- Antithrombin III, Human Plasma

Athens Research & Technology

**3. COMPOSITION/INFORMATION ON INGREDIENTS:**

The product contains no substances which at their present concentrations are considered to be hazardous to health.

SUBSTANCE					MIXTURE
Chemical ID	Common name/synonym	CAS-No.	EC No.	Classification	Concentration
Antithrombin III	ATIII, Factor Xa Inhibitor, Heparin Cofactor	90170-80-2	290-516-4	-	≥6.3%
C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub>	Tris, Tris(hydroxymethyl) aminomethane	77-86-1	201-064-4	-	≤38%
NaCl	Sodium Chloride/ Halite	7647-14-5	231-598-3	-	≤55%

**4. FIRST AID MEASURES**

<b>Inhalation</b>	If inhaled, move person into fresh air. If not breathing, give CPR
<b>Skin Contact</b>	In case of skin contact wash off with soap and plenty of water
<b>Eye Contact</b>	In case of eye contact flush eyes with water
<b>Ingestion</b>	If swallowed never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.

**5. FIRE FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Hazards From Chemical</b>	Not flammable or combustible
<b>Special PPE for Firefighters</b>	Use SCBA and full turnout gear

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Safety glasses/goggles, gloves, labcoat.
<b>Environmental Precautions</b>	Do not let product enter drain system
<b>Methods &amp; Materials for containment and clean up</b>	Pick up and arrange disposal in accordance with existing disposal practices employed for infectious waste at your location. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.
<b>Conditions for safe storage</b>	Keep container tightly closed in a dry and well-ventilated place. Recommended Storage temperature: -20 C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limit Value</b>	Contains no substances with occupational exposure limit values
<b>PPE – Personal Protective Equipment</b>	<p><b>Respiratory Protection</b> – Not required</p> <p><b>Hand Protection</b> – Handle with gloves, inspect prior to use</p> <p><b>Eye Protection</b> – Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH or EN 166</p> <p><b>Skin &amp; Body Protection</b> – PPE must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p><b>Hygiene Measures</b> – General industrial hygiene practice</p>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

<b>Form</b>	Solid, Lyophilized
<b>Color</b>	white

### SAFETY DATA

<b>pH</b>	8.0
<b>Melting point/Freezing Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Ignition temperature</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Density</b>	No data available
<b>Solubility in Water</b>	No data available
<b>Solubility in Oil</b>	No data available
<b>Solubility in Acetone</b>	No data available

16-16-012020- Antithrombin III, Human Plasma

Athens Research & Technology

Relative vapor density	No data available
Odor Characteristics	No data available
Evaporation rate	No data available

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to Avoid	No data available
Materials to Avoid	No data available

## 11. Toxicological Information

Acute Toxicity Data: Not hazardous

### NUMERIC MEASURES OF TOXICITY

Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other acute toxicity information	No data available

### ROUTES OF EXPOSURE

Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through the skin. May cause irritation.
Eyes	May cause eye irritation
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.

### Potential Health Effects

Single Exposure	No data available
Repeated Exposure	No data available
Related Symptoms	No data available
Acute & Chronic Effects	No data available
Reproductive toxicity	No data available
Teratogenicity	No data available
Mutagenicity	No data available

Signs and Symptoms of Exposure – to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Carcinogenicity

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as possible or confirmed human carcinogen.
NTP	
OSHA	

**12. Ecological Information**

Ecotoxicity, Persistence/Degradability, Bioaccumulation, Mobility in Soil, and Other Adverse Effects: No Data Available

**13. Disposal Considerations**

Contaminated packaging	Dispose of unused product in accordance with environmental control regulations
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**14. Transport Information**

DOT Classification	Not dangerous goods. This substance is considered to be non-hazardous for transport. Non-hazardous for air transport.
IMDG	Not dangerous goods. This substance is considered to be non-hazardous for transport. Non-hazardous for air transport
IATA	Not dangerous goods. This substance is considered to be non-hazardous for transport. Non-hazardous for air transport

**15. Regulatory Information**

OSHA Hazards	No known OSHA hazards
SARA 311/312 Hazards	No SARA hazards Reportable qty: lowest RQ>999999 lbs
SARA 302 Components Subject to reporting levels established by SARA Title III, Section 302:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components Subject to reporting levels established by SARA Title III, Section 313:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right To Know Components	Antithrombin III - CAS-No. 90170-80-2 Tris -CAS-No. 77-86-1 Sodium Chloride -CAS-No. 7647-14-5
New Jersey Right To Know Components	Antithrombin III - CAS-No. 90170-80-2 Tris -CAS-No. 77-86-1 Sodium Chloride -CAS-No. 7647-14-5
California Prop. 65 Components	This product does not contain any chemicals known to State

**16-16-012020- Antithrombin III, Human Plasma**

Athens Research & Technology

	of California to cause cancer, birth defects or any other reproductive harm.
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## 16. Other Information

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The above information is believed to be correct but does not purport to be all inclusive. It shall be used only as a guide for experienced personnel. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

This material is a laboratory reagent. For research use only. It is not to be administered to humans or used for any drug purpose.

Athens Research and Technology shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.athensresearch.com](http://www.athensresearch.com) for additional terms and conditions of sale.

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