Safety Data Sheet

Cat. # AYQ-E10390

Human alpha-Synuclein ELISA Kit

Size: 1 96-well plate
SECTION 1: Identification of substance

1.1. Identification

Product form: Article
Product name: Human alpha-Synuclein ELISA Kit
Product code: AYQ-E10390
Other means of identification: Coated Microtiter Plate, ELISA Detection Reagent (HRP-Streptavidin Conjugate (SABC) (contains Proclin 300), Recombinant Protein Standard (Lyophilized Standard) (contains Proclin 300), Recombinant Protein Standard Diluent (Sample/Standard Dilution Buffer), Secondary Antibody Solution (Biotin Detection Antibody) (contains Proclin 300), Secondary Antibody Diluent (Antibody Dilution Buffer) (contains Proclin 300), ELISA Detection Reagent Diluent (SABC Dilution Reagent)(contains Proclin 300), ELISA Detection Substrate (TMB Substrate) (contains Tetramethylbenzidine), Wash Buffer [20X], Stop Solution (contains Sulfuric acid).

1.2. Recommended use and restrictions on use
No additional information available.

1.3. Supplier

Assay Solution
310 W. Cummings Park, STE A
Woburn, MA 01801 – United States
T: (617) 575-7215 – F: (617) 380-0053
info@assaysolution.com – www.AssaySolution.com

1.4. Emergency telephone number
Emergency number: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification
Not classified.

2.2. GHS Label elements, including precautionary statements

GHS-US labeling
No labeling applicable.

2.3. Other hazards which do not result in classification
No additional information available.

2.4. Unknown acute toxicity
Not applicable.

SECTION 3: Information on ingredients

3.1. Substances
Not applicable.

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Common Name</th>
<th>CAS No.</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>battery acid / BOV / brown acid / dihydrogen sulfate / vitriol / sulfuric acid, anhydrous</td>
<td>7664-93-9</td>
<td>0.05 - 0.5</td>
<td>Skin Corr. 1A, H314 Carc. 1A, H350 Aquatic Acute 3, H402</td>
</tr>
</tbody>
</table>
### SECTION 4: First-aid measures

**4.1. Description of first aid measures**

First-aid measures after inhalation: Remove person to fresh air and comfortable breathing.

First-aid measures after skin contact: Thoroughly wash skin with water.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Call a poison center/doctor/physician if you feel unwell.

**4.2. Most important symptoms and effects (acute and delayed)**

No additional information available.

**4.3. Immediate medical attention and special treatment, if necessary**

Treat symptomatically.

### SECTION 5: Fire-fighting measures

**5.1. Suitable (and unsuitable) extinguishing media**


**5.2. Specific Hazards arising from the chemical**

Reactivity: The product is non-reactive under normal conditions of use, storage, and transport.

**5.3. Special protective equipment and precautions for fire-fighters**

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**

Emergency procedures: Ventilate spillage area.

**6.1.2. For emergency responders**

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Take up liquid spill into absorbent material.

Other information: Dispose of materials or solid residues at an authorized site.

**6.4. Reference to other sections**

For further information refer to section 13.

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
<th>ACGIH TWA (mg/m³)</th>
<th>0.2 mg/m³ (Thoracic fraction)</th>
</tr>
</thead>
</table>

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.
Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/ Personal protective equipment

Hand protection: Protective gloves
Eye protection: Safety glasses
Skin and body protection: Wear suitable protective clothing
Respiratory protection: In the case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available.
SECTION 10: Stability and reactivity

10.1. Reactivity
This product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Incompatible materials
No additional information available.

10.5. Hazardous decomposition products
Hazardous decompositions products.

10.6. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

**Sulfuric acid (7664-93-9)**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>2140 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>2140 mg/kg body weight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

**Sulfuric acid (7664-93-9)**

<table>
<thead>
<tr>
<th>National Toxicology Program (NTP) Status</th>
<th>Known Human Carcinogens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single and repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : This product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

**Sulfuric acid (7664-93-9)**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>42 mg/l (96 h, Gambusia affinis)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>29 mg/l (24 h, Daphnia magna)</td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Biodegradability: not applicable</td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>-2.2 (Estimated value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Not bioaccumulative</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods: Dispose of waste in accordance to applicable national, regional, or local regulations.

Contaminated packaging: Dispose in same manner as unused product.

SECTION 14: Transportation information

Department of Transportation (DOT)

In accordance with DOT
Not applicable

Transportation of dangerous goods

Not applicable

Transport by sea

Not applicable

Transport by air

Not applicable

SECTION 15: Regulatory information

15.1. US Federal Regulations

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
</tr>
<tr>
<td>Not subject to reporting requirements of the United States SARA Section 313</td>
<td></td>
</tr>
<tr>
<td>Subject to reporting requirements of United States SARA Section 313</td>
<td></td>
</tr>
<tr>
<td>CERCLA RQ</td>
<td>1000 lb</td>
</tr>
<tr>
<td>RQ (Reportable quantity, section 304 of EPA’s List of Lists)</td>
<td>1000 lb</td>
</tr>
<tr>
<td>SARA Section 302 Threshold Planning Quantity (TPQ)</td>
<td>1000 lb</td>
</tr>
</tbody>
</table>
15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

National Regulations

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on IARC (International Agency for Research on Cancer)</td>
</tr>
<tr>
<td>Listed as carcinogen on NTP (National Toxicology Program)</td>
</tr>
</tbody>
</table>

15.3. US State regulations
No additional information available.

SECTION 16: Other information

Revision date: 10/25/2018

H-phrases full text

<table>
<thead>
<tr>
<th>H-phrases</th>
<th>Full text</th>
</tr>
</thead>
<tbody>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
</tr>
</tbody>
</table>

Notice to reader: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.