

# Safety Data Sheet

**Cat. # AYQ-E11319**

**Human Actin-Free Vitamin D Binding Protein (VDBP) ELISA Kit**

Size: 1 96-well plate

## SECTION 1: Identification of substance

### 1.1. Identification

Product form : Article  
 Product name : Human Actin-free Vitamin D Binding Protein (VDBP) ELISA Kit  
 Product code: : AYQ-E11319  
 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](mailto:info@assaysolution.com) – [www.AssaySolution.com](http://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

Name	Common Name	CAS No.	%	GHS-US classification
Sulfuric acid	battery acid / BOV / brown acid / dihydrogen sulfate / vitriol / sulfuric acid, anhydrous	7664-93-9	0.05 - 0.5	Skin Corr. 1A, H314 Carc. 1A, H350 Aquatic Acute 3, H402

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## 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

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 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.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Sulfuric acid (7664-93-9)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (Thoracic fraction)

### 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

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

### 9.2. Other information

No additional information available.

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## 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)	
LD50 oral rat	2140 mg/kg body weight (Rat, Experimental value, Oral)
ATE US (oral)	2140 mg/kg body weight

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)	
National Toxicology Program (NTP) Status	Known Human Carcinogens

Reproductive toxicity : Not classified

Specific target organ toxicity (single and repeated exposure) : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : Not classified

## 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)	
LC50 fish 1	42 mg/l (96 h, Gambusia affinis)
EC50 Daphnia 1	29 mg/l (24 h, Daphnia magna)

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## 12.2. Persistence and degradability

Sulfuric acid (7664-93-9)	
Persistence and degradability	Biodegradability: not applicable
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

## 12.3. Bioaccumulative potential

Sulfuric acid (7664-93-9)	
Log Pow	-2.2 (Estimated value)
Bioaccumulative potential	Not bioaccumulative

## 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

Sulfuric acid (7664-93-9)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313 Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

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## 15.2. International regulations

### CANADA

No additional information available

### EU-Regulations

No additional information available

### National Regulations

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

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

## 15.3. US State regulations

No additional information available.

## SECTION 16: Other information

Revision date : 10/25/2018

H-phrases full text	
H314	Causes severe skin burns and eye damage
H350	May cause cancer
H402	Harmful to aquatic life

*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.*