

A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # IT7852

Immunotag[™] Rat AKR1B1 (Aldose reductase) ELISA

Size: 196-well plate



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/11/2017 Revision date: 10/16/2018 Version: 7.3

SECTION 1: Identification

1.1. Identification

Product form : Article
Product name : ELISA Kits
Product code : ITXXXX

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 [25X], Stop Solution (contains Sulfuric acid).

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.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 (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
sulfuric acid	battery acid / BOV / brown acid /	(CAS-No.) 7664-93-9	0.05 - 0.5	Skin Corr. 1A, H314
(Note B)	brown oil of vitriol / dihydrogen			Carc. 1A, H350
	sulfate / dipping acid / electrolyte			Aquatic Acute 3, H402
	acid / hydrogensulfate / matting			
	acid / mattling acid / nordhausen			
	acid / oil of vitriol / sulfate of			
	hydrogen / sulfuric acid,anhydrous			
	/ sulfuric-acid- / sulphuric acid /			
	vitriol / vitriol, brown oil			

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Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

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

First-aid measures after skin contact : Wash skin with plenty of 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

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to tak

 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

ELISA Kits

No additional information available

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sulfuric acid (7664-93-9) USA - ACGIH - Occupational Exposure Limits	

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 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 No data available рΗ : Not applicable Melting point 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 : No data available Relative density Solubility : No data available Log Pow : No data available Auto-ignition temperature : No data available Decomposition temperature No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizing properties

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

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: No data available

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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. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Hazardous decomposition products.

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

National Toxicology Program (NTP) Status	Known Human Carcinogens

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated : Not classified

exposure

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

SECTION 12: Ecological information

12.1. Toxicity

sulfuric acid (7664-93-9)

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

sulfuric acid (7664-93-9)	Ilfuric acid (7664-93-9)		
LC50 fish 1	42 mg/l (96 h, Gambusia affinis)		
EC50 Daphnia 1	29 mg/l (24 h, Daphnia magna)		

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

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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 : Waste treatment methods.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

sulfuric acid (7664-93-9)	
Not listed on the United States TSCA (Toxic Substitution Not subject to reporting requirements of the United State Subject to reporting requirements of United State	d 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

15.2. International regulations

CANADA

EU-Regulations

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

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SECTION 16: Other information

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Full text of H-phrases:

H314	Causes severe skin burns and eye damage
H350	May cause cancer
H402	Harmful to aquatic life

SDS US (GHS HazCom 2012)

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.

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