

Cyclic GMP EIA Kit (Cat No. SKT-211)

Section 1: Product and Company Identification

Product Name Cyclic GMP EIA Kit

Catalog Number **SKT-211**

Company StressMarq Biosciences Inc.

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Section 2: Chemical Component Information

List of Components Plate (SKC-211A)

Cyclic GMP Standard (SKC-211B)
Cyclic GMP Antibody (SKC-211C)
Cyclic GMP Conjugate (SKC-211D)
Sample Diluent (SKC-211E)
Plate Primer (SKC-211F)
Acetic Anhydride (SKC-211G)

Wash Buffer Concentrate (SKC-211I)

TMB Substrate (SKC-211J) Stop Solution (SKC-211K) Plate Sealer (SKC-211L)

Triethylamine (SKC-211H)

Hazardous Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	Kit Component	<u>Percent</u>	SARA 313
Acetic Anhydride	108-24-7	Acetic Anhydride	> 1.0%	No
Hydrochloric Acid	7647-01-0	Stop Solution	> 1.0%	No
Hydrochloric Acid	7647-01-0	Sample Diluent	< 1.0%	No
Triethylamine	121-44-8	Triethylamine	> 1.0%	Yes

Section	3:	Health	Hazards
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all times. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical components of this kit and ensure prompt

removal from skin, eye, and clothing.

Acetic Anhydride Lachrymator. Harmful if inhaled or swallowed. Causes burns by all exposure routes;

eyes, digestive system, respiratory system and skin. Flammable liquid and vapor.

Hazard Statement(s):

H226: Flammable liquid and vapor.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H332: Harmful if inhaled. **Precautionary Statement(s):**

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P260: Do not breathe {dust/fume/gas/mist/vapors/spray}.

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

Hydrochloric Acid Harmful if inhaled, absorbed through skin or swallowed. Irritating to eyes, respiratory

system and skin.

Hazard Statement(s):



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H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Triethylamine

Lachrymator. Harmful if inhaled, absorbed through skin or swallowed. Causes burns by all exposure routes; eyes, digestive system, respiratory system, and skin. May cause central nervous system effects. Extremely flammable liquid and vapor.

Hazard statement(s):

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H311 + H331 Toxic in contact with skin or if inhaled

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

P322 Specific measures (see supplemental first aid instructions on this label).

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.



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	Acetic Anhydride	Sample Diluent	Triethylamine
	<u>(C₄H₆O₃, > 97.0%)</u>	(HCl, 0.365%) Stop Solution (HCl, 3.65%)	(C ₆ H ₁₅ N, > 99.0%)
Inhalation	If inhaled, remove to fresh air. Seek medical attention.	If inhaled, remove to fresh air. Seek medical attention if respiratory symptoms develop.	If inhaled, remove to fresh air. Seek medical attention.
Skin Contact	Wash thoroughly with soap and water ≥ 15 minutes. Seek medical attention.	Wash thoroughly with soap and water ≥ 15 minutes. If irritation or discomfort develops seek medical attention.	Wash thoroughly with soap and water ≥ 15 minutes. Seek medical attention.
Eye Contact	Get medical attention immediately. Rinse eyes with water ≥ 15 minutes.	Rinse eyes with water extensively. Seek medical attention.	Get medical attention immediately. Rinse eyes with water ≥ 15 minutes.
Ingestion	If swallowed, do NOT induce vomiting. Wash out mouth with water if person is conscious. Seek medical attention.	Get medical attention immediately. If person is conscious, give a cupful of water.	If swallowed, do NOT induce vomiting. Wash out mouth with water if person is conscious. Seek medical attention.

Section 5: Fire Fightir	ng Measures		
	Acetic Anhydride	Hydrochloric Acid	Triethylamine
Flash Point	54°C (129.2°F)	N/A	-11°C (12.20°F)
Explosion Limits	2.9% - 10.3%	N/A	1.2% - 8.0%
Auto-ignition Temp	316°C (600.8°F)	N/A	215°C (419.0°F)
Flammability	2	N/A	3
Extinguishing Media	Suitable: Dry sand or earth. DO NOT USE WATER.	Suitable: Water spray. Carbon Dioxide, dry chemical powder, or appropriate foam.	Suitable: Water spray, dry chemical or alcohol resistant foam.
Firefighting		self-contained breathing apparatund eyes and with thermal decompositions.	
Specific Hazards:	Emits irritating and highly toxic gases. Water reactive. Will react with water and release flammable and /or toxic gas. Vapor may form explosive mixture with air and can travel to ignition source, flashing back.	Emits toxic fumes under fires conditions.	Emits irritating and highly toxic gases. Vapor may cause flash fire, traveling to an ignition source and flash back. Vapors can spread along ground and collect in low or confined areas.



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ction 6: Acc	idental Release Measures		
	Acetic Anhydride	Hydrochloric Acid	Triethylamine
Cleanup	Wear appropriate protective	Wear appropriate	Wear appropriate
Procedures	clothing. Ventilate area. Remove ignition sources. Contain spill to prevent migration. Absorb on sand or vermiculite. Neutralize spill with lime, cover material with dry soda ash and place into closed container for disposal. Vapor suppressing foam may be used to reduce vapors.	protective clothing. Ventilate area. Contain spill to prevent migration. Absorb on sand or vermiculite, place in sealed container for disposal. Wash area of spill with soap and water.	protective clothing. Ventilate area. Remove ignition sources. Contain spill to prevent migration. Absorb on sand or vermiculite. Vapor suppressing foam may be used to reduce vapors.
Waste Disposal	Dispose of in accordance with federal	, state, and local regulations.	

Section 7: Handling and Storage		
Handling	Avoid getting components of this kit on you or in you. Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. Qualified and experienced professionals should only handle this kit.	
Storage	Store according to the package insert instructions.	

Section 8: Exposure Controls and Personal Protection		
Engineering Controls	No special engineering controls are required when working with this kit. Use with adequate ventilation.	
Protective Equipment	Safety glasses are recommended to prevent eye contact. Chemical resistant gloves and a lab coat should be worn to prevent skin contact.	

Section 9: Physical and	Chemical Properties		
<u>Characteristic</u>	Acetic Anhydride	Hydrochloric Acid	Triethylamine
Appearance	Clear, colorless liquid	Clear, colorless liquid	Clear, colorless liquid
Odor	Strong pungent odor	Pungent	Strong fishy odor
Boiling Point	140°C	100°C	89-90°C
Melting Point	Not available	0°C	-115°C
Flash Point	N/A	N/A	N/A
Ignition temperature	N/A	N/A	N/A
Density	N/A	N/A	N/A
Vapor Pressure	3.9 mm Hg @68F	Essentially the same	57.1 mmHg @25°C
		as water	
Solubility in Water	Decomposes	Complete	73.7 g/L
рН	3	0.1	12.4



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Section 10:	Stability and	Reactivity
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Stability Acetic Anhydride: Stable, may decompose if exposed to moist air. Readily hydrolyzed.

HCl: This material is stable until the expiration date on the kit if stored as directed.

Triethylamine: Stable under normal temperatures and pressures. Oxidizes when exposed

to air.

Incompatibles Acetic Anhydride: Metals, strong oxidizing agents, reducing agents, bases, alcohols,

amines, ammonia, nitrates, nitric acid, permanganates, phenols, sodium hydroxide,

hydrogen peroxide, chromium trioxide, potassium hydroxide perchloric acid.

HCI: Cyanides, sulfides, sulfites, and formaldehyde.

Triethylamine: Strong oxidizing agents, strong acids, halogenated hydrocarbons, some

metals.

Hazardous Acetic Anhydride: Carbon monoxide, carbon dioxide.

Decomposition HCl: Hydrogen chloride gas.

Products Triethylamine: Nitrogen oxides, carbon monoxide, carbon dioxide, amines.

Section 11: Toxicological Information

Route of Exposure

Skin Contact May cause skin irritation.

Skin Absorption May be harmful if absorbed through the skin.

Eye Contact May cause eye irritation.

Inhalation May be irritating to mucous membranes and upper respiratory tract. May be harmful if

inhaled.

Ingestion May be harmful if swallowed.

Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated.

Section 12: Ecological Information

No data is available.

Section 13: Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Section 14: Transport Information

U.S. and Canadian Transportation; DOT

Proper Shipping Name Chemical Kits

UN Identification Number 3316

Class and Description 9, Miscellaneous

Packing Group N/A Hazard Label Class 9

International Air Transportation (IATA)

Proper Shipping Name Chemical Kits

UN Identification Number 3316

Class and Description 9, Miscellaneous

Packing Group III
Hazard Label Class 9



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Section 15: Regulatory Information

Product related information

The product is not subject to classification according to the sources of literature known to us. Observe general safety regulations when handling chemicals.

Safety Statements

Avoid release to the environment.

Risk Statements

Acetic Anhydride

Hazard Statement(s):

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H302: Harmful if swallowed.

H314: Causes severe skin burns

and eye damage.

H332: Harmful if inhaled.

Precautionary Statement(s):

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P260: Do not breathe {dust/fume/gas/mist/vapors/spra v}.

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

Hydrochloric Acid

Hazard Statement(s):

H314 Causes severe skin burns and eve damage.

H335 May cause respiratory irritation.

Precautionary statement(s):

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **Triethylamine**

Hazard statement(s):

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H311 + H331 Toxic in contact with

skin or if inhaled

H314 Causes severe skin burns and eye damage.

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Precautionary statement(s):

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shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest

in a position

comfortable for breathing.

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contact lenses, if present and easy to do. Continue rinsing.

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P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

U.S. Regulatory Information

Sara Listed: Yes. Triethylamine.

Section 16: Other Information

Disclaimer: For Research Use Only. Not for diagnostic, therapeutic, or other uses.

Further The information contained in this document is accurate to the best of our knowledge and is **Information:** provided in good faith. This document is intended only as a guide to the appropriate

precautionary handling of the materials contained in this kit by properly trained personnel using this kit. Final determination or suitability of any materials is the sole responsibility of the user. StressMarq Biosciences Inc. shall not be held liable for any damage resulting from

use or handling of this product.

Last Document 13-Jan-2021

Revision Date: