



SAFETY DATA SHEET

Follicle-Stimulating Hormone EIA Kit

Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108

Revision: 02/21/2013

1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Code: 500710

Product Name: Follicle-Stimulating Hormone EIA Kit

Intended Use: For research use only, not for human or veterinary use.

Manufacturer Information

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

2. Hazards Identification

GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

GHS Precaution Phrases: No data available.

GHS Response Phrases: No data available.

GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

Potential Health Effects (Acute and Chronic): Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.

The Stop Solution contains <5% sulfuric acid (CAS# 7664-93-9). The risk phrases associated with sulfuric acid include:
Corrosive, causes severe burns.
Irritating to eyes and skin.

Proclin 300 (CAS# 55965-84-9) contains dangerous ingredients at <0.0015%. The risk phrases associated with these dangerous ingredients include:
Causes burns.
May cause sensitization by skin contact.
Toxic by inhalation, in contact with skin and if swallowed.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Target Organs: No data available.

Signs and Symptoms Of Exposure: To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Medical Conditions Generally Aggravated By Exposure: No data available.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	EC#	Risk Phrases
1. FSH Standard 1 (<0.0015% Proclin 300)	NA	1.45 %	NA	No phrases apply.

Hazardous Components (Chemical Name)	CAS #	Concentration	EC#	Risk Phrases
2. FSH Standard 2 (<0.0015% Proclin 300)	NA	1.45 %	NA	No phrases apply.
3. FSH Standard 3 (<0.0015% Proclin 300)	NA	1.45 %	NA	No phrases apply.
4. FSH Standard 4 (<0.0015% Proclin 300)	NA	1.45 %	NA	No phrases apply.
5. FSH Standard 5 (<0.0015% Proclin 300)	NA	1.45 %	NA	No phrases apply.
6. FSH Standard 6 (<0.0015% Proclin 300)	NA	1.45 %	NA	No phrases apply.
7. Anti-FSH-HRP + Anti-FSH-Biotin Conjugate (<0.0015% Proclin 300)	NA	18.84 %	NA	No phrases apply.
8. TMB Substrate Solution (<0.0015% Proclin 300)	NA	21.74 %	NA	No phrases apply.
9. Stop Solution (<5% sulfuric acid)	NA	21.74 %	NA	R34-36/38
10. Wash Solution (50X) (<0.0015% Proclin 300)	NA	28.98 %	NA	No phrases apply.

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.
In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
Indication of any immediate medical attention and special treatment needed:	No data available.

5. Fire Fighting Measures

Suitable Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.
Unsuitable Extinguishing Media:	A solid water stream may be inefficient.
Flammable Properties and Hazards:	No data available.
Flash Pt:	No data.
Autoignition Pt:	No data available.
Explosive Limits:	LEL: No data. UEL: No data.
Hazardous Combustion Products:	No data available.
Fire Fighting Instructions:	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:	Avoid breathing vapors and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
Steps To Be Taken In Case Material Is Released Or Spilled:	Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

7. Handling and Storage

Precautions To Be Taken in Handling:	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.
Precautions To Be Taken in Storing:	Keep container tightly closed. Store in accordance with information listed on the product insert.
Hazard Label Information:	Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. FSH Standard 1 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
2. FSH Standard 2 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
3. FSH Standard 3 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
4. FSH Standard 4 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
5. FSH Standard 5 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
6. FSH Standard 6 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
7. Anti-FSH-HRP + Anti-FSH-Biotin Conjugate (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
8. TMB Substrate Solution (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
9. Stop Solution (<5% sulfuric acid)	NA	No data.	No data.	No data.
10. Wash Solution (50X) (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
Hazardous Components (Chemical Name)	CAS #	Britain EH40	France VL	Europe
1. FSH Standard 1 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
2. FSH Standard 2 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
3. FSH Standard 3 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
4. FSH Standard 4 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
5. FSH Standard 5 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
6. FSH Standard 6 (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
7. Anti-FSH-HRP + Anti-FSH-Biotin Conjugate (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
8. TMB Substrate Solution (<0.0015% Proclin 300)	NA	No data.	No data.	No data.
9. Stop Solution (<5% sulfuric acid)	NA	No data.	No data.	No data.
10. Wash Solution (50X) (<0.0015% Proclin 300)	NA	No data.	No data.	No data.

Protective Equipment Summary - Hazard Label Information:	Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety glasses Safety shower in work area Vent Hood
Engineering Controls (Ventilation etc.):	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Eye Protection:	Safety glasses
Protective Gloves:	Compatible chemical-resistant gloves
Other Protective Clothing:	Lab coat
Respiratory Equipment (Specify Type):	NIOSH approved respirator, as conditions warrant.
Work/Hygienic/Maintenance Practices:	Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.
Environmental Exposure Controls:	No data available.

9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical States: Gas Liquid Solid

Appearance and Odor: No data available.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Autoignition Pt: No data.

Explosive Properties: No data available.

Oxidizing Properties: No data available.

Other Information

Percent Volatile: No data.

10. Stability and Reactivity

Reactivity: No data available.

Stability: Unstable Stable

Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Conditions To Avoid: For the TMB Substrate Solution, avoid its exposure to direct sunlight, metals, or oxidants, and protect from freezing.

Polymerization: Will occur Will not occur

Incompatibility - Materials To Avoid: No data available.

Hazardous Decomposition Or Byproducts: No data available.

11. Toxicological Information

Toxicological Information: The toxicological effects of this product have not been thoroughly studied.

Chronic Toxicological Effects: No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. FSH Standard 1 (<0.0015% Proclin 300)	NA	n.a.	n.a.	n.a.	n.a.
2. FSH Standard 2 (<0.0015% Proclin 300)	NA	n.a.	n.a.	n.a.	n.a.
3. FSH Standard 3 (<0.0015% Proclin 300)	NA	n.a.	n.a.	n.a.	n.a.
4. FSH Standard 4 (<0.0015% Proclin 300)	NA	n.a.	n.a.	n.a.	n.a.
5. FSH Standard 5 (<0.0015% Proclin 300)	NA	n.a.	n.a.	n.a.	n.a.
6. FSH Standard 6 (<0.0015% Proclin 300)	NA	n.a.	n.a.	n.a.	n.a.
7. Anti-FSH-HRP + Anti-FSH-Biotin Conjugate (<0.0015% Proclin 300)	NA	n.a.	n.a.	n.a.	n.a.
8. TMB Substrate Solution (<0.0015% Proclin 300)	NA	n.a.	n.a.	n.a.	n.a.
9. Stop Solution (<5% sulfuric acid)	NA	n.a.	n.a.	n.a.	n.a.
10. Wash Solution (50X) (<0.0015% Proclin 300)	NA	n.a.	n.a.	n.a.	n.a.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No



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12. Ecological Information

General Ecological Information: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not dangerous goods.

LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

15. Regulatory Information

European Community Hazard Symbol codes

No data available.

European Community Risk and Safety Phrases

S24/25 - Avoid contact with skin and eyes.
S37/39 - Wear suitable gloves and eye/face protection.

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. FSH Standard 1 (<0.0015% Proclin 300)	NA	No	No	No	No
2. FSH Standard 2 (<0.0015% Proclin 300)	NA	No	No	No	No
3. FSH Standard 3 (<0.0015% Proclin 300)	NA	No	No	No	No
4. FSH Standard 4 (<0.0015% Proclin 300)	NA	No	No	No	No
5. FSH Standard 5 (<0.0015% Proclin 300)	NA	No	No	No	No
6. FSH Standard 6 (<0.0015% Proclin 300)	NA	No	No	No	No
7. Anti-FSH-HRP + Anti-FSH-Biotin Conjugate (<0.0015% Proclin 300)	NA	No	No	No	No
8. TMB Substrate Solution (<0.0015% Proclin 300)	NA	No	No	No	No
9. Stop Solution (<5% sulfuric acid)	NA	No	No	No	No
10. Wash Solution (50X) (<0.0015% Proclin 300)	NA	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. FSH Standard 1 (<0.0015% Proclin 300)	NA	No	No	No	No
2. FSH Standard 2 (<0.0015% Proclin 300)	NA	No	No	No	No
3. FSH Standard 3 (<0.0015% Proclin 300)	NA	No	No	No	No
4. FSH Standard 4 (<0.0015% Proclin 300)	NA	No	No	No	No
5. FSH Standard 5 (<0.0015% Proclin 300)	NA	No	No	No	No
6. FSH Standard 6 (<0.0015% Proclin 300)	NA	No	No	No	No
7. Anti-FSH-HRP + Anti-FSH-Biotin Conjugate (<0.0015% Proclin 300)	NA	No	No	No	No
8. TMB Substrate Solution (<0.0015% Proclin 300)	NA	No	No	No	No
9. Stop Solution (<5% sulfuric acid)	NA	No	No	No	No



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Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
10. Wash Solution (50X) (<0.0015% Proclin 300)	NA	No	No	No	No

Regulatory Information Statement:

This SDS was prepared in accordance with 29 CFR 1910.1200, Regulation (EC) No.1272/2008, and European Directive 67/548/EEC as amended.

16. Other Information

Revision Date: 02/21/2013

Company Policy or Disclaimer

For research use only, not for human or veterinary use.

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required