



MATERIAL SAFETY DATA SHEET

FTO (intracellular; human) EIA Kit

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

Revision: 09/20/2011

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

Product Code: 579010

Product Name: FTO (intracellular; human) EIA Kit

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

Synonyms: Fat Mass and Obesity-Associated Gene;

2. Hazards Identification

Emergency Overview: Avoid contact and inhalation.

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.

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. Wash Buffer Concentrate (10X)	NA	~33.75 %	NA	No phrases apply.
2. Dilution Buffer (5X)	NA	~33.75 %	NA	No phrases apply.
3. Detection Antibody	NA	~ 8.1 %	NA	No phrases apply.
4. Anti-Rabbit IgG/HRP Conjugate (100X)	NA	~ 0.101 %	NA	No phrases apply.
5. FTO (human) EIA Standard	NA	< 0.001 %	NA	No phrases apply.
6. Substrate Solution	NA	~ 8.1 %	NA	No phrases apply.
7. Stop Solution	NA	~ 8.1 %	NA	No phrases apply.
8. Quality Control Sample	NA	< 0.001 %	NA	No phrases apply.
9. Lysis Buffer Concentrate (10X)	NA	~ 8.1 %	NA	No phrases apply.

4. First Aid Measures

Emergency and First Aid Procedures:

If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

If swallowed, 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.

In case of contact with eyes, 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 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.

5. Fire Fighting Measures

Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	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.
Flammable Properties and Hazards:	No data available.
Hazardous Combustion Products:	No data available.
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.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:	Avoid release into the environment. Avoid breathing vapors, raising and breathing dust, 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). Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.
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7. Handling and Storage

Hazard Label Information:	Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.
Precautions To Be Taken in Handling:	Avoid breathing (dust, vapor, mist, gas). Avoid prolonged or repeated exposure.
Precautions To Be Taken in Storing:	Keep tightly closed. Store at correct temperature.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Wash Buffer Concentrate (10X)	NA	No data.	No data.	No data.
2. Dilution Buffer (5X)	NA	No data.	No data.	No data.
3. Detection Antibody	NA	No data.	No data.	No data.
4. Anti-Rabbit IgG/HRP Conjugate (100X)	NA	No data.	No data.	No data.
5. FTO (human) EIA Standard	NA	No data.	No data.	No data.
6. Substrate Solution	NA	No data.	No data.	No data.
7. Stop Solution	NA	No data.	No data.	No data.
8. Quality Control Sample	NA	No data.	No data.	No data.
9. Lysis Buffer Concentrate (10X)	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
Respiratory Equipment (Specify Type):	NIOSH approved respirator, as conditions warrant.
Eye Protection:	Safety glasses
Protective Gloves:	Compatible chemical-resistant gloves
Other Protective Clothing:	Lab coat
Engineering Controls (Ventilation etc.):	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Work/Hygienic/Maintenance Practices:	Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wash thoroughly after handling.

9. Physical and Chemical Properties

Physical States: ☐ Gas ☒ Liquid ☒ Solid

Melting Point: No data.

Boiling Point: No data.

Autoignition Pt: No data.

Flash Pt: No data.

Specific Gravity (Water = 1): No data.

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

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

Evaporation Rate: No data.

Solubility in Water: No data.

Percent Volatile: No data.

Appearance and Odor: No data available.

10. Stability and Reactivity

Stability: Unstable ☐ Stable ☒

Conditions To Avoid - Instability: No data available.

Incompatibility - Materials To Avoid: No data available.

Hazardous Decomposition Or Byproducts: No data available.

Possibility of Hazardous Reactions: Will occur ☐ Will not occur ☒

Conditions To Avoid - Hazardous Reactions: No data available.

11. 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. Wash Buffer Concentrate (10X)	NA	n.a.	n.a.	n.a.	n.a.
2. Dilution Buffer (5X)	NA	n.a.	n.a.	n.a.	n.a.
3. Detection Antibody	NA	n.a.	n.a.	n.a.	n.a.
4. Anti-Rabbit IgG/HRP Conjugate (100X)	NA	n.a.	n.a.	n.a.	n.a.
5. FTO (human) EIA Standard	NA	n.a.	n.a.	n.a.	n.a.
6. Substrate Solution	NA	n.a.	n.a.	n.a.	n.a.
7. Stop Solution	NA	n.a.	n.a.	n.a.	n.a.
8. Quality Control Sample	NA	n.a.	n.a.	n.a.	n.a.
9. Lysis Buffer Concentrate (10X)	NA	n.a.	n.a.	n.a.	n.a.

12. 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.



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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. Wash Buffer Concentrate (10X)	NA	No	No	No	No
2. Dilution Buffer (5X)	NA	No	No	No	No
3. Detection Antibody	NA	No	No	No	No
4. Anti-Rabbit IgG/HRP Conjugate (100X)	NA	No	No	No	No
5. FTO (human) EIA Standard	NA	No	No	No	No
6. Substrate Solution	NA	No	No	No	No
7. Stop Solution	NA	No	No	No	No
8. Quality Control Sample	NA	No	No	No	No
9. Lysis Buffer Concentrate (10X)	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. Wash Buffer Concentrate (10X)	NA	No	No	No	No
2. Dilution Buffer (5X)	NA	No	No	No	No
3. Detection Antibody	NA	No	No	No	No
4. Anti-Rabbit IgG/HRP Conjugate (100X)	NA	No	No	No	No
5. FTO (human) EIA Standard	NA	No	No	No	No
6. Substrate Solution	NA	No	No	No	No
7. Stop Solution	NA	No	No	No	No
8. Quality Control Sample	NA	No	No	No	No
9. Lysis Buffer Concentrate (10X)	NA	No	No	No	No

Regulatory Information Statement: This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

16. Other Information

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