

# SAFETY DATA SHEET Prostaglandin E Synthase (cytosolic) Polyclonal

Antibody

Revision: 03/26/2013 Supercedes Revision: 03/10/2010

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



Product Code:	160150							
Product Name:	Prostaglandin E Synthase (cytosolic) Polyclonal Antibody							
	cPGE Synthase; cPGES;							
	-		nan or veteri	nary use				
Manufacturer Information	For research use only, not for human or veterinary use.							
	Cayman Chemic			1 (202) 121 0202				
	CHEMTREC W			+1 (800)424-9300				
	CHEMTREC Ou	itside USA and (	Canada:	+1 (703)527-3887				
Information:	Cayman Chemic	al Company	+1 (7.	34)971-3335				
Web site address:	www.caymanche	em.com						
	2. Haza	rds Identi	fication					
GHS Classification	Placard	Key word	GHS H	lazard				
Skin Corrosion/Irritation, Category 2	Exclamation point	Warning	Cause	s skin irritation				
Serious Eye Damage/Eye Irritation, Category 2A	Exclamation point	Warning	Cause	s serious eye irritation				
Target Organ Systemic Toxicity (single	Exclamation	Warning		ause respiratory irritation,or may cause drowsiness				
exposure), Category 3	point			zziness				
Acute Toxicity: Oral, Category 5 GHS Hazard Phrases:	none H315: Causes sk	Warning	May b	e harmful if swallowed				
GHS Precaution Phrases:	<ul> <li>H319: Causes serious eye irritation</li> <li>H335: May cause respiratory irritation.</li> <li>H303: May be harmful if swallowed.</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.</li> <li>P261: Avoid breathing dust/fume/gas/mist/vapours/spray.</li> </ul>							
	<ul> <li>P302+352: IF ON SKIN: Wash with plenty of soap and water.</li> <li>P332+313: If skin irritation occurs, get medical advice/attention.</li> <li>P362: Take off contaminated clothing and wash before re-use.</li> <li>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contalenses, if present and easy to do. Continue rinsing.</li> <li>P337+313: If eye irritation persists, get medical advice/attention.</li> <li>P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.</li> <li>P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortal for breathing.</li> <li>P312: Call a POISON CENTER or doctor/physician if you feel unwell.</li> </ul>							
GHS Storage and Disposal Phrases:	Please refer to Se	ection 7 for Stora	age and Secti	on 13 for Disposal information.				
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Eyes? Yes	Ingestion? Yes Other: Injection				

Multi-region format

4
~
Caµman
Cayman

## **SAFETY DATA SHEET** Prostaglandin E Synthase (cytosolic) Polyclonal

Revision: 03/26/2013 Supercedes Revision: 03/10/2010

Antibody Target Organs: No data available. LD 50 / LC 50: Please refer to Section 11. Signs and Symptoms Of Exposure: Ingestion may cause: dehydration, diarrhea, gastrointestinal disturbances, nausea, and vomiting. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Medical Conditions Generally Aggravated By No data available. Exposure: Composition/Information on Ingredients Hazardous Components (Chemical Name) CAS # Concentration EC# **Risk Phrases RTECS #** 1. Prostaglandin E Synthase (cytosolic) NA < 9.16 % NA No phrases apply. NA Polyclonal Antibody Sodium chloride 7647-14-5 <66.0 % 231-598-3 R36 VZ4725000 2. 3. Trizma base 77-86-1 <25.0 % 201-064-4 R36/37/38 TY2900000 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 No data available. attention and special treatment needed: 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. Accidental Release Measures **Protective Precautions, Protective** Avoid raising and breathing dust, and provide adequate ventilation. **Equipment and Emergency Procedures:** 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 Contain spill and collect, as appropriate. **Released Or Spilled:** Transfer to a chemical waste container for disposal in accordance with local regulations.



# SAFETY DATA SHEET

Prostaglandin E Synthase (cytosolic) Polyclonal

Revision: 03/26/2013

	Antibody		Supercede	Supercedes Revision: 03/10/2010				
	7. Handl	ling and Storag	je					
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. E>	posure Con	trols/Personal	Protection					
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits				
<ol> <li>Prostaglandin E Synthase (cytosolic) Polyclonal Antibody</li> </ol>	NA	No data.	No data.	No data.				
2. Sodium chloride	7647-14-5	No data.	No data.	No data.				
3. Trizma base	77-86-1	No data.	No data.	No data.				
Hazardous Components (Chemical Name)	CAS #	Britain EH40	France VL	Europe				
<ol> <li>Prostaglandin E Synthase (cytosolic) Polyclonal Antibody</li> </ol>	NA	No data.	No data.	No data.				
2. Sodium chloride	7647-14-5	No data.	No data.	No data.				
3. Trizma base	77-86-1	No data.	No data.	No data.				
Protective Equipment Summary - Hazard Label Information: Engineering Controls (Ventilation etc.):	glasses Safety	shower in work area V	ye wash station in work area Yent Hood	Lab coat Safety				
Engineering controls (ventilation etc.).	-	mmended exposure limit	tilation, or other engineering costs.	Silutors to control airborn				
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 facility and a safety shower. Wash thoroughly after handling.							
Environmental Exposure Controls:	No data available							
9.	Physical and	d Chemical Pro	operties					
	. nyeloar an							

# Information on Basic Physical and Chemical Properties

	4
	σ
Ca	uman

## SAFETY DATA SHEET Prostaglandin E Synthase (cytosolic) Polyclonal Antibody

Revision: 03/26/2013 Supercedes Revision: 03/10/2010

		Antibo	bay	Supercedes F	Revision: 03/10/2010		
Explosive Properties:	No data available						
Oxidizing Properties:	No data available						
Other Information							
Percent Volatile:	No data.						
	10. Stabil	ty and I	Reactivity				
Reactivity:	No data available						
Stability:	Unstable [ ]	Stable [ X ]					
Stability Note(s):	Stable if stored in accordance with information listed on the product insert.						
Conditions To Avoid:	No data available						
Polymerization:	Will occur [ ]	Will not oc	cur [ X ]				
Incompatibility - Materials To Avoid:	strong oxidizing a	igents					
Hazardous Decomposition Or Byproducts:	carbon dioxide carbon monoxide hydrogen chloride nitrogen oxides sodium oxides	e gas					
	11. Toxicol	ogical li	nformation				
Toxicological Information:	The toxicological	effects of thi	s product have not bee	en thoroughly studied.			
	Sodium chloride - Toxicity Data: Oral LDLO (man): 1,000 mg/kg; Oral LD50 (mouse): 4,000 mg/kg; Oral LD50 (rat): 3,000 mg/kg;						
		-		000 mg/kg; Oral TDLC nouse): 5,500 mg/kg; C			
Chronic Toxicological Effects:	Trizma base - Investigated as a reproductive effector. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Sodium chloride RTECS Number: VZ4725000 Trizma base RTECS Number: TY2900000						
Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA		
<ul> <li>Prostaglandin E Synthase (cytosolic)</li> <li>Polyclonal Antibody</li> </ul>	NA	n.a.	n.a.	n.a.	n.a.		
2. Sodium chloride	7647-14-5	n.a.	n.a.	n.a.	n.a.		
3. Trizma base	77-86-1	n.a.	n.a.	n.a.	n.a.		
Carcinogenicity:	NTP? No IA	RC Monogra	phs? No OSHA F	Regulated? No			
	12. Ecolo	gical Inf	ormation				
General Ecological Information:	Avoid release into	the environ		pollution.			
	13. Dispos	al Cons	iderations				
Waste Disposal Method:	Dispose in accord	ance with loc	cal, state, and federal r	egulations.			
	14. Trans	port Inf	ormation				
Globally Harmonized System of Classificatio	n and Labelling						



## SAFETY DATA SHEET staglandin E Synthase (cytosolic) Poly

Page: 5

Prostaglandin E Synthase (cytosolic) Polyclonal Antibody Supe

Revision: 03/26/2013 Supercedes Revision: 03/10/2010

Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation Target Organ Systemic Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation, or may cause drowsiness and dizziness Acute Toxicity: Oral, Category 5 - Warning! May be harmful if swallowed

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 Xi: Irritant

### European Community Risk and Safety Phrases

R36/37/38 - Irritating to eyes, respiratory system and skin.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

 $S36/37/39 \quad \ \ \, \text{-Wear suitable protective clothing, gloves and eye/face protection.}$ 

#### US EPA SARA Title III

На	zardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1.	Prostaglandin E Synthase (cytosolic)	NA	No	No	No	No
	Polyclonal Antibody					
2.	Sodium chloride	7647-14-5	No	No	No	No
3.	Trizma base	77-86-1	No	No	Yes-Cat. N106	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Prostaglandin E Synthase (cytosolic)	NA	No	No	No	No
Polyclonal Antibody					
2. Sodium chloride	7647-14-5	No	No	Inventory	No
3. Trizma base	77-86-1	HAP	No	Inventory	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:** 

## 03/26/2013

## **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