

**Product name** Forskolin  
**(M)SDS Number** 3828  
**Version** 1

**Issuing Date:** 2025-01-08

## 1. Identification

### Product identifier

**Product name** Forskolin

### Other means of identification

**(M)SDS Number** 3828

### Contains

### Synonyms

Colforsin;  
Forskolin;  
7β-Acetoxy-8,13-epoxy-1a,6β,9a-trihydroxy-labd-14-en-11-one;  
1H-Naphtho[2,1-b]pyran-1-one,  
5-(acetyloxy)-3-ethenyldodecahydro-6,10,10b-trihydroxy-3,4a,7,7,10a-pentamethyl-,  
[3R-(3a,4aβ,5β,6β,6aa,10a,10aβ,10ba)]-

**Molecular Weight** 410.5 g/mol

### Details of the supplier of the safety data sheet

#### Manufacturer

Cell Signaling Technology, Inc.  
3 Trask Lane  
Danvers, MA 01923  
United States  
TEL: +1 978 867 2300  
FAX: +1 978 867 2400

#### Importer

Cell Signaling Technology, Inc.  
Building 7  
A-SUN Science & Technology Park  
399 Shengxia Road  
Pudong Shanghai 201210  
China  
TEL: 4006-473287  
FAX: (86) 21-5835-6116

#### Supplier

No information available

**E-mail address** support@cellsignal.com

### Emergency telephone number

**Emergency telephone** 400 120 4937

### Recommended use of the chemical and restrictions on use

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.

**Restrictions on use** No information available

## 2. Hazard(s) identification

### **Emergency Overview**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

<b>Appearance</b> Crystalline Powder White	<b>Physical state</b> Solid	<b>Odor</b> See section 9
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**Classification of the substance or mixture**

<b>Acute toxicity - dermal</b>	Category 4
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**Label elements****Signal Word**

Warning

**Hazard Statements**

None

**Precautionary statements****Prevention**

Wear protective gloves/protective clothing.

**Response**

IF ON SKIN: Wash with plenty of soap and water.

Call a POISON CENTER or doctor if you feel unwell.

Take off contaminated clothing and wash it before reuse.

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Physical and chemical hazards**

Not applicable.

**Health hazards**

Immediate Health Effects: Not applicable.

Chronic effects: Not applicable.

**Environmental hazards**

Not applicable.

**Other hazards which do not result in classification**

No information available.

**3. Composition/information on ingredients****Synonyms**

Colforsin;  
Forskolin;  
7 $\beta$ -Acetoxy-8,13-epoxy-1a,6 $\beta$ ,9a-trihydroxy-labd-14-en-11-one;  
1H-Naphtho[2,1-b]pyran-1-one,  
5-(acetyloxy)-3-ethenyldodecahydro-6,10,10b-trihydroxy-3,4a,7,7,10a-pentamethyl-,  
[3R-(3a,4a $\beta$ ,5 $\beta$ ,6 $\beta$ ,6aa,10a,10a $\beta$ ,10ba)]-

**Chemical nature**

Monoconstituent substance

Chemical name	Weight-%	CAS No
colforsin	100	66575-29-9

#### 4. First-aid measures

##### Description of necessary first aid measures

<b>Inhalation</b>	Move to fresh air. Consult a physician. If not breathing, give artificial respiration.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Skin contact</b>	Consult a physician if necessary. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
<b><u>Most important symptoms/effects, acute and delayed</u></b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b><u>For emergency responders</u></b>	No information available.
<b><u>Note to physicians</u></b>	Treat symptomatically.

#### 5. Fire-fighting measures

##### Extinguishing media

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b>Unsuitable Extinguishing Media</b>	No information available
<b><u>Specific hazards arising from the chemical</u></b>	No information available.
<b><u>Special protective actions for fire-fighters</u></b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### 6. Accidental release measures

##### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.
<b><u>Environmental precautions</u></b>	Do not flush into surface water or sanitary sewer system.
<b><u>Methods and material for containment and cleaning up</u></b>	Prevent further leakage or spillage if safe to do so. Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

**Precautions to prevent secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

**Precautions for safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. See Section 8 for information on appropriate personal protective equipment.

**Conditions for safe storage, including any incompatibilities** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** None known based on information supplied.

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **Biological occupational exposure limits**

No data available

### **Monitoring and observation processes**

No applicable information was found.

### **Engineering controls**

Showers  
Eyewash stations  
Ventilation systems

### **Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tightly fitting safety goggles.

**Skin and body protection** Wear protective gloves/clothing.

**Hand protection** Impervious gloves.

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### **Information on basic physical and chemical properties**

<b>Appearance</b>	Crystalline Powder
<b>Color</b>	White
<b>Physical state</b>	Solid
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	no data available	None known
Melting point/freezing point	225-235 °C	
Boiling point or initial boiling point and boiling range	no data available	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability	no data available	None known
Flammability Limits in Air		None known
Upper explosion limit	no data available	
Lower explosion limit	no data available	
Vapor pressure	no data available	None known
Relative vapor density	No data available	None known
Relative density	no data available	None known
Solubility	Practically insoluble	
Solubility in other solvents	Soluble in dimethyl sulfoxide (DMSO) @ 160 mg/mL	None known
Partition coefficient: n-octanol/water	no data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature	no data available	None known
Viscosity	no data available	None known
Viscosity, dynamic	no data available	None known
<b><u>Additional information</u></b>		
Explosive properties	No information available	
Oxidizing properties	No information available	
Molecular Weight	410.5 g/mol	

## 10. Stability and reactivity

<b><u>Stability</u></b>	Stable under normal conditions.
<b><u>Possibility of hazardous reactions</u></b>	None under normal processing.
<b><u>Conditions to Avoid</u></b>	No information available
<b><u>Incompatible products</u></b>	No information available
<b><u>Hazardous Decomposition Products</u></b>	None known based on information supplied

## 11. Toxicological information

### Acute Toxicity

#### Numerical measures of toxicity

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
colforsin	2550 mg/kg ( Rat )	-	-

<b>Skin corrosion/irritation</b>	No information available
<b>Serious eye damage/eye irritation</b>	No information available
<b>Respiratory or skin sensitization</b>	No information available

Mutagenic effects	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available.
Specific target organ toxicity (single exposure)	No information available
Specific target organ toxicity (repeated exposure)	No information available
Aspiration hazard	No information available

## 12. Ecological information

Ecotoxicity	The environmental impact of this product has not been fully investigated.
Persistence and degradability	No information available.
Bioaccumulative potential	No information available.
Mobility in soil	No information available.

## 13. Disposal considerations

Waste chemicals	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Do not empty into drains; dispose of this material and its container in a safe way.
Contaminated packaging	Do not reuse empty containers.

## 14. Transport information

IMDG/IMO	Not regulated
IATA	Not regulated
China	Not regulated

### Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

## 15. Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalog of occupational hazard factors: Not applicable  
 Catalog of occupational diseases: Not applicable

**Regulations on the Control over Safety of Hazardous Chemicals**

Inventory of hazardous chemicals Not applicable

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

**List of hazardous chemicals under priority management** Not applicable

**Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used**

Inventory of highly toxic goods Not applicable

**Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals**

List of toxic chemicals severely restricted for import and export in China Not applicable

**Measures for the Environmental Management of New Chemical Substances**

**IECSC - China Inventory of Existing Chemical Substances** Contact supplier for inventory compliance status.

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**16. Other information**

**Issuing Date:** 2025-01-08

**Revision Note** The symbol (\*) in the margin of this SDS indicates that this line has been revised.

**Abbreviations and acronyms**

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA:	Time weighted average	STEL:	Short term exposure limit
Ceiling:	Maximum limit value:	*	Skin designation
C	Carcinogen		

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**