

# • SAFETY DATA SHEET

Version 8.9  
Revision Date 10/14/2025  
Print Date 10/15/2025

## SECTION 1. IDENTIFICATION

### 1.1 Product identifiers

Product name : InnoZyme™ Calpain 1/2 Activity Assay Kit

Product Number : CBA054

Brand : Millipore

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Biochemical research/analysis

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

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765

Fax : +1 800 325-5052

### 1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

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## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Hazards for the product as supplied

Flammable liquids : Category 4

Reproductive toxicity : Category 1B

#### Other hazards

None known.

## GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**  
P403 Store in a well-ventilated place.  
P405 Store locked up.

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

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Refer to component SDS

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### SECTION 4. FIRST AID MEASURES

Refer to component SDS

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### SECTION 5. FIREFIGHTING MEASURES

Refer to component SDS

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Refer to component SDS

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## SECTION 7. HANDLING AND STORAGE

For precautions see section 2.2.

Advice on protection against fire and explosion	:	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Advice on safe handling	:	Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.
Further information on storage conditions	:	Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.
Storage class	:	6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects
Recommended storage temperature	:	-70°C Degree Freezer
Further information on storage stability	:	-70°C Degree Freezer

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to component SDS

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to component SDS

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## SECTION 10. STABILITY AND REACTIVITY

Refer to component SDS

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## SECTION 11. TOXICOLOGICAL INFORMATION

Refer to component SDS

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## SECTION 12. ECOLOGICAL INFORMATION

Refer to component SDS

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## SECTION 13. DISPOSAL CONSIDERATIONS

Refer to component SDS

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### National Regulations

#### 49 CFR Road

Not regulated as a dangerous good

Poison Inhalation Hazard : No

### Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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## SECTION 15. REGULATORY INFORMATION

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## SECTION 16. OTHER INFORMATION

### Kit Components:

Activation Buffer (QIA120)	Millipore	JA7663
Reduction Reagent	Millipore	JA7665
Assay Buffer	Millipore	JA7667
Substrate (CBA054)	Millipore	JA9183
Inhibitor (CBA054)	Millipore	JA9184
Control, Human Calpain 1 (CBA054)	Millipore	JA9360

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -

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International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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US / EN

**Kit Components:**

<b>Activation Buffer (QIA120)</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Millipore - JA7663		Danger	May damage fertility or the unborn child.	Obtain special instructions before use. IF exposed or concerned: Get medical advice/ attention. Store locked up. Dispose of contents/ container to an approved waste disposal plant. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection.	

<b>Reduction Reagent</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Millipore - JA7665					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

<b>Assay Buffer</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Millipore - JA7667		Danger	May damage fertility or the unborn child.	Obtain special instructions before use. IF exposed or concerned: Get medical advice/ attention. Store locked up. Dispose of contents/ container to an approved waste disposal plant. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection.	

<b>Substrate (CBA054)</b>					
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Millipore - JA9183		Warning	Combustible liquid.	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/ container to an approved waste disposal plant.	

				Wear protective gloves/ eye protection/ face protection.	
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**Inhibitor (CBA054)**

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Millipore - JA9184		Warning	Combustible liquid.	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/ container to an approved waste disposal plant. Wear protective gloves/ eye protection/ face protection.	

**Control, Human Calpain 1 (CBA054)**

Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary statements	Supplemental information
Millipore - JA9360		Danger	May damage fertility or the unborn child.	Obtain special instructions before use. IF exposed or concerned: Get medical advice/ attention. Store locked up. Dispose of contents/ container to an approved waste disposal plant. Do not handle until all safety	

				precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection.	
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