

Safety Data Sheet

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Catalog Number: MET-5036
Product Name: DAG Kinase Activity Assay Kit
Recommended Use: Laboratory Research Reagents

MANUFACTURER:

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SECTION 2. HAZARDS IDENTIFICATION

DAG Substrate (Part No. 50361D): One 1 mL vial

Classification:

Acute toxicity, Inhalation, Category 4 (H332)
Eye irritation, Category 2A (H319)
Reproductive toxicity, Category 2 (H361)

Pictogram	
Signal Word	Warning
Hazard Statements: Causes serious eye irritation (H319), Harmful if inhaled (H332), Suspected of damaging fertility or the unborn child (H361).	
Precautionary Statements: Obtain special instructions before use (P201), Do not handle until all safety precautions have been read and understood (P202), Avoid breathing dust/fume/gas/mist/vapours/spray (P261), Wash skin thoroughly after handling (P264), Use only outdoors or in a well-ventilated area (P271), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304 + P340), IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), If	

exposed or concerned: Get medical advice/attention (P308 + P313), If eye irritation persists: Get medical advice/attention (P337 + P313), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).


4X Assay Buffer (Part No. 50362D): Two 1.5 mL vials

Classification:

Acute toxicity, Inhalation, Category 4 (H332)

Eye irritation, Category 2A (H319)

Reproductive toxicity, Category 2 (H361)

Pictogram	
Signal Word	Warning
<p>Hazard Statements: Causes serious eye irritation (H319), Harmful if inhaled (H332), Suspected of damaging fertility or the unborn child (H361).</p>	
<p>Precautionary Statements: Obtain special instructions before use (P201), Do not handle until all safety precautions have been read and understood (P202), Avoid breathing dust/fume/gas/mist/vapours/spray (P261), Wash skin thoroughly after handling (P264), Use only outdoors or in a well-ventilated area (P271), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF IHHALLED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304 + P340), IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), If exposed or concerned: Get medical advice/attention (P308 + P313), If eye irritation persists: Get medical advice/attention (P337 + P313), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).</p>	


Kinase Buffer (Part No. 50363D): One 500 µL vial

Classification:

Acute toxicity, Inhalation, Category 4 (H332)

Eye irritation, Category 2A (H319)

Reproductive toxicity, Category 2 (H361)


Pictogram	
Signal Word	Warning
Hazard Statements: Causes serious eye irritation (H319), Harmful if inhaled (H332), Suspected of damaging fertility or the unborn child (H361).	
Precautionary Statements: Obtain special instructions before use (P201), Do not handle until all safety precautions have been read and understood (P202), Avoid breathing dust/fume/gas/mist/vapours/spray (P261), Wash skin thoroughly after handling (P264), Use only outdoors or in a well-ventilated area (P271), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF IHHALLED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304 + P340), IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), If exposed or concerned: Get medical advice/attention (P308 + P313), If eye irritation persists: Get medical advice/attention (P337 + P313), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).	

200X Fluorometric Probe (Part No. 239901): One 55 µL amber vial

Classification:

Flammable liquids, Category 4 (H227)

Acute toxicity, Oral, Category 4 (H302)

Pictogram	
Signal Word	Warning
Hazard Statements: Combustible liquid (H227), Harmful if swallowed (H302).	
Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: call a POISON CENTER if you feel unwell. Rinse mouth (P301 + P312 + P330), In	

case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction (P370 + P378), Store in a well-ventilated place and keep cool (P403 + P235), Dispose of contents/container to an approved waste disposal plant (P501).


Phosphatidic Acid Standard (Part No. 50364D): One 200 µL vial

Classification:

Acute toxicity, Inhalation, Category 4 (H332)

Eye irritation, Category 2A (H319)

Reproductive toxicity, Category 2 (H361)

Pictogram	
Signal Word	Warning
Hazard Statements: Causes serious eye irritation (H319), Harmful if inhaled (H332), Suspected of damaging fertility or the unborn child (H361).	
Precautionary Statements: Obtain special instructions before use (P201), Do not handle until all safety precautions have been read and understood (P202), Avoid breathing dust/fume/gas/mist/vapours/spray (P261), Wash skin thoroughly after handling (P264), Use only outdoors or in a well-ventilated area (P271), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF IHHALLED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304 + P340), IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), If exposed or concerned: Get medical advice/attention (P308 + P313), If eye irritation persists: Get medical advice/attention (P337 + P313), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

DAG Substrate (Part No. 50361D): One 1 mL vial

CHEMICAL NAME	CONCENTRATION	CAS #
Diethylenetriaminepentaacetic Acid	2.5 mM	67-43-6

4X Assay Buffer (Part No. 50362D): Two 1.5 mL vials

CHEMICAL NAME	CONCENTRATION	CAS #
Diethylenetriaminepentaacetic Acid	10 mM	67-43-6

Kinase Buffer (Part No. 50363D): One 500 µL vial

CHEMICAL NAME	CONCENTRATION	CAS #
Diethylenetriaminepentaacetic Acid	10 mM	67-43-6

200X Fluorometric Probe (Part No. 239901): One 55 µL amber vial

CHEMICAL NAME	CONCENTRATION	CAS #
Dimethyl Sulfoxide	100%	67-68-5
Proprietary Compound A	10-15 mM	

Phosphatidic Acid Standard (Part No. 50364D): One 200 µL vial

CHEMICAL NAME	CONCENTRATION	CAS #
Diethylenetriaminepentaacetic Acid	2.5 mM	67-43-6

SECTION 4. FIRST-AID MEASURES

- IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN
- IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN
- IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
- IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or CO₂
- Special protective equipment: Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Evacuate area

- Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- Absorb with sand or vermiculite, sweep up, place in a bag and hold for waste disposal.
- Avoid raising dust.
- Ventilate area and wash spill site after material pickup is complete.

SECTION 7. SAFETY HANDLING AND STORAGE

- Should be handled by trained personnel observing good laboratory practices.
- Avoid breathing vapor.
- Avoid skin contact or swallowing.
- May cause allergic reaction in sensitized individuals.
- Store in properly labeled containers at temperature on label

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product.
- Personal protective equipment: Face shield or safety glasses, gloves, protective clothing, suitable respiratory equipment in cases of inadequate ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form: liquid
- Odor: no data available
- pH: no data available
- Boiling point / range: no data available
- Melting point / range: no data available
- Flash point: no data available
- Evaporation rate: no data available
- Vapor pressure: no data available
- Vapor density: no data available
- Relative density: no data available
- Water solubility: no data available
- Autoignition temperature: no data available
- Decomposition temperature: no data available
- Viscosity: no data available
- Explosive properties: no data available
- Oxidizing properties: no data available

SECTION 10. STABILITY AND REACTIVITY

- Stability: no data available
- Reactivity: no data available
- Conditions to avoid: no data available
- Incompatible materials: no data available
- Decomposition products: no data available

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute toxicity:
 - Diethylenetriaminepentaacetic Acid
 - LD50 Oral - rat - > 2000 mg/kg
 - Dimethyl Sulfoxide:
 - LD50 Oral - rat - 14.500 mg/kg
 - LC50 Inhalation - rat - 4 h - 40250 ppm
 - LD50 Dermal - rabbit - > 5.000 mg/kg
 - Proprietary Compound A: no data available
- Skin corrosion/irritation: no data available
- Serious eye damage/irritation:
 - Diethylenetriaminepentaacetic Acid
 - Eye irritation - rabbit - rat - yes
- Respiratory or skin sensitization: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity:
 - Diethylenetriaminepentaacetic Acid:
 - Toxicity to fish: LC50 - *Leuciscus idus* (Golden orfe) - > 100 mg/l - 96 h
 - Toxicity to daphnia and other aquatic invertebrates: EC50 - *Daphnia* - 245 mg/l - 48 h
 - Dimethyl Sulfoxide:
 - Toxicity to fish: LC50 - *Pimephales promelas* (fathead minnow) - 34.000 mg/l - 96 h, LC50 - *Oncorhynchus mykiss* (rainbow trout) - 35.000 mg/l - 96 h
 - Toxicity to daphnia and other aquatic invertebrates: EC50 - *Daphnia pulex* (Water flea) - 27.500 mg/l
 - Toxicity to algae: EC50 - *Lepomis macrochirus* (Bluegill)- > 400.000 mg/l - 96h
 - Proprietary Compound A: no data available
- Mobility: no data available
- Biodegradation: no data available
- Bioaccumulation:
 - Diethylenetriaminepentaacetic Acid:
 - Indication of bioaccumulation

SECTION 13. DISPOSAL CONSIDERATIONS

For small quantities: Cautiously add to a large stirred excess of water. Adjust the pH to neutral. Flush the aqueous solutions down the drain with plenty of water.



SECTION 14. TRANSPORT INFORMATION - IATA

- Hazard Class: Not Hazardous

SECTION 15. REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture:
no data available
- Chemical safety assessment: no data available

SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide for experienced personnel. Cell Biolabs, Inc. shall not be held liable for any damage resulting from the handling or from contact with the above product(s).

Revised 12/21/2017