

Safety Data Sheet

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

Catalog Number: MET-5216
Product Name: PLP Assay Kit
Recommended Use: Laboratory Research Chemicals

MANUFACTURER:

Cell Biolabs, Inc.
5628 Copley Drive
San Diego, CA 92111

EMERGENCY CONTACT:

+1 858 271 6500
info@cellbiolabs.com

SECTION 2. HAZARDS IDENTIFICATION

D-PhgAT Activation Buffer (Part No. 52162B): One 2 mL vial

Classification:

Eye irritation, Category 2A

Specific target organ: Respiratory system, Category 3

Pictogram	
Signal Word	Warning
Hazard statements: Harmful if swallowed (H302), Causes skin irritation (H315), Causes serious eye irritation (H319), May cause respiratory irritation (H335)	
Precautionary Statements: Do not breathe dust/fume/gas/mist/vapors/spray (P261), Wash skin thoroughly after handling (P264), Do not eat, drink or smoke when using this product (P270) Use only outdoors or in well-ventilated area (P271) Wear eye protection/face protection (P280), IF ON SKIN: Wash with plenty of soap and water. (P302+P352), 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), Rinse mouth. (P330), Take off contaminated clothing and wash it before reuse. (P362+P364)	

D-PhgAT Substrate Solution (Part No. 52164D): One 10 mL bottle

Classification:

Acute toxicity, oral, Category 4

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2A

Specific target organ toxicity, single exposure; Respiratory tract irritation, Category 3

Pictogram	
Signal Word	Warning
Hazard statements: Harmful if swallowed (H302), Causes skin irritation (H315), Causes serious eye irritation (H318+H319), May cause respiratory irritation (H335)	
Precautionary Statements: Do not breathe dust/fume/gas/mist/vapors/spray (P261), Wash skin thoroughly after handling (P264), Use only outdoors or in well-ventilated area (P271) Wear eye protection/face protection (P280), IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. (P304 + P340 + P312) 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 eye irritation persists: Get medical advice/ attention. (P337 + P313)	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

D-PhgAT Activation Buffer (Part No. 52162B): One 2 mL vial

CHEMICAL NAME	CONCENTRATION	CAS #
Phosphate-Citrate Buffer	50 mM	Not Assigned

D-PhgAT Substrate Solution (Part No. 52164D): One 10 mL bottle

CHEMICAL NAME	CONCENTRATION	CAS #
CAPSO, Sodium Salt	50 mM	102601-34-3
α -Ketoglutaric Acid	15 mM	328-50-7
D-4-Hydroxyphenylglycine	25 mM	22818-40-2
EDTA	5 mM	60-00-1

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.
- 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: no data available
- Skin corrosion/irritation: no data available
- Serious eye damage/irritation: no data available
- 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: no data available
- Mobility: no data available
- Biodegradation: no data available
- Bioaccumulation: no data available

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).

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