# MATERIAL SAFETY DATA SHEET

Revision: 11/22/2021

**Proteasome Activation (Assembly) Fluorometric Assay Kit**

## Section 1. Product and supplier information

### 1.1. Identification

Product name: Proteasome Activation (Assembly) Fluorometric Assay Kit
Product catalog number: J4000
CAS#: N/A

### 1.2. Recommended use and restrictions on use

Research use only. Not for clinical or human use.

### 1.3. Supplier

Ubiquitin-Proteasome Biotechnologies (UBPBio), LLC
751 Hebron Pkwy, Suite 110
Lewisville, TX 75057
USA
Tel: 1-800-218-0982 Fax: 1-800-682-6801
Email: info@ubpbio.com
Web: www.ubpbio.com

### 1.4. Emergency telephone number

Emergency number: **1-800-218-0982**

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Based on currently available data this substance or mixture is not classifiable according to GHS.

### 2.2. GHS Label elements, including precautionary statements

No GHS label is needed for this substance.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

| Chemical | CAS# |
|---|---|
| Mca-KKVAPYPME-Dap(Dnp)-NH2 | N/A |
| MG132 | 133407-82-6 |
| ATP | 56-65-5 |

### 3.2. Mixtures

Not Applicable

## SECTION 4: First-aid measures

**4.1. Description of first aid measures**

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

First-aid measures after skin contact: Wash skin with plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur.

First-aid measures after eye contact: Hold eyelids apart and flush eyes with plenty of water. Have eyes examined and tested by medical professional.

First-aid measures after ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

## SECTION 5: Fire-fighting measures

**5.1. Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

**5.2. Specific hazards arising from the chemical**

Fire hazard: No data available.

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

**5.3. Special protective equipment and precautions for fire-fighters**

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment, and emergency procedures**

**6.1.1. For non-emergency personnel**

Avoid breathing dust, and provide adequate ventilation.

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).

**6.1.2. For emergency responders**

Protective equipment: Do not attempt to take action without suitable protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Precautions for safe handling: Ensure good ventilation. Wear personal protective equipment. Avoid

breathing dust.
Hygiene measures: Do not eat, drink or smoke when using this product.

**7.2. Conditions for safe storage, including any incompatibilities**
Storage conditions: Keep container tightly closed. Store in a well-ventilated place. Keep at -20 - 80 °C

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
Britain EH40: No data available
OSHA TWA: No data available
Europe: No data available
ACGIH TWA: No data available

**8.2. Appropriate engineering controls**
Appropriate engineering controls: Ensure good ventilation.
Environmental exposure controls: Avoid release to the environment.

**8.3. Individual protection measures/Personal protective equipment**
**Hand protection:** Protective gloves
**Eye protection:** Safety glasses
**Skin and body protection:** Wear suitable protective clothing
**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

| Chemical | Physical State | Color | Solubility |
|---|---|---|---|
| Mca-KKVAPYPME-Dap(Dnp)-NH2 | Solid | Yellow | 20mg/ml in DMSO |
| MG132 | Solid | White | 20mg/ml in DMSO |
| ATP | In water, pH7 | Clear | 0.5 M in water |

Odor: No data available
Odor threshold: No data available
Melting point: Not applicable
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Not applicable.
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available

Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

No data available.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute Toxicity**

MG132: ICE-MUS TDLo: 16ug/kg

**Skin corrosion/irritation**

Classification criteria are not met based on available data

**Serious eye damage/irritation**

Classification criteria are not met based on available data

**Respiratory or skin sensitization**

Classification criteria are not met based on available data

**Germ cell mutagenicity**

Classification criteria are not met based on available data

**Carcinogenicity**

Classification criteria are not met based on available data

**Reproductive toxicity**

Classification criteria are not met based on available data

**Specific target organ toxicity - single exposure**

Classification criteria are not met based on available data

**Specific target organ toxicity - repeated exposure**

Classification criteria are not met based on available data

**Aspiration hazard**

Classification criteria are not met based on available data

**Symptoms / Routes of exposure**

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion: There may be irritation of the throat.
Skin: There may be mild irritation at the site of contact.
Eyes: There may be irritation and redness.

Delayed / Immediate Effects: No known symptoms.

**Additional Information**

Exposure may cause irritation of eyes, mucous membranes, upper respiratory tract and skin.
To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

**12.2. Persistence and degradability**

No data available on mobility of the substance.

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

Dispose substance in accordance with prevailing country, federal, state and local regulations.

**SECTION 14: Transport information**

Department of Transportation (DOT): Not regulated
TDG Transport by sea: Not regulated
Air transport: Not regulated

**SECTION 15: Regulatory information**

**Code letter and hazard designation of product: None**
**Hazard-determining components of labeling: None**
**EU Risk And Safety phrases:**

- 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
- S28: after contact with skin, wash immediately with plenty of water
- S36/37/39: wear protective clothing, gloves and eye/face protection
- R28: toxic if swallowed
- R38: irritating to skin
- R41: risk of serious damages to eyes

**R62: possible risk of impaired fertility:** Not known

**R63: possible risk of harm to unborn child:** Not known

**SARA 302 components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 components:**
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
**SARA 311/312 hazards:**
No SARA Hazards.
**Massachusetts Right to Know components:**
No components are subject to the Massachusetts Right to Know Act.
No components are subject to the Pennsylvania Right to Know Act.
**Pennsylvania Right to Know components:**
No components are subject to the New Jersey Right to Know Act.
**New Jersey Right to Know components:**
No components are subject to the New Jersey Right to Know Act.
**California Prop. 65 components:**
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16. Other information**
**Other Information about this product**
Not available

**DISCLAIMER:**
This above information is believed to be correct and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty with respect to such information, and we assume no liability resulting from its use. Users should make independent decisions regarding the suitability of the information for their particular purposes.