

## MATERIAL SAFETY DATA SHEET (MSDS)

### 1. Identification

Product name: Colorimetric Sandwich ELISA Kit

### 2. Contents Information

Kits components	Composition
Antibody coated microwells	Contains particular dry antibodies
Standards	Contains particular recombinant proteins; Proclin300 < 0.05%
Detection antibody (100X)	Contains particular antibodies; Proclin300 < 0.05%
HRP-conjugated antibody (100X)	Contains secondary antibody; Proclin300 < 0.05%
Sample Diluent	Sodium Phosphate, Dibasic < 1%; Proclin300 < 0.05%
Detection Diluent	Sodium Phosphate, Dibasic < 1%; BSA < 0.25%; Proclin300 < 0.05%
Wash Buffer concentrate (20X)	Sodium Phosphate, Dibasic < 1%; Proclin300 < 0.05%
Tetramethylbenzidine Substrate (TMB)	Contains <0.06% TMB (3,5,3'5'-tetramethylbenzidine)
Stop solution	Contains <10% sulphuric acid
Plate cover seals	

NOTE: For antibodies listed above, see MSDS for antibodies; for proteins listed above, see MSDS for proteins.

### 3. Hazard Identification

TMB: harmful if swallowed; may cause irritation to eyes and skin;

Sulphuric acid: harmful if swallowed or inhaled; corrosive and irritant to skin and eyes.

**Toxicological Data of sulphuric acid:** ORAL (LD50): Acute: 2140 mg/kg [Rat.];

VAPOR (LC50): Acute: 255 ppm 4 hour(s) [Rat.].

According to 29 CFR 1910.1200, other kit reagents are not considered to be hazardous. However, precautions for handling this product should be noticed and practiced.

### 4. First Aid Measures

Inhalation	Move to fresh air
Ingestion	Rinse out mouth with a large amount of water and get medical attention
Skin Exposure	Wash skin with soap and a large amount of water
Eye Exposure	Flush eyes with water for at least 15 minutes and get medical attention

### 5. Fire Fighting Measures

Flash Point	Not applicable
Autoignition Temperature	Not applicable
Flammability	Not applicable
Extinguishing media	Use dry chemical

### 6. Accidental Release Measures

Clean with inert absorbent material and dispose to chemical waste container

The above information should be used only as a guide and it does not claim to be all inclusive. The information in this MSDS does not constitute a warranty, and Proteintech Group Inc. shall not be held liable for any damages or losses resulting from handling or from contact with the above product.

### 7. Handling and Storage

Avoid inhalation and contact with eyes and skin. Avoid prolonged or repeated exposure.

Store antibody- and recombinant protein- containing tubes at -20°C; store microplate wells and other reagent tubes at 2-8°C.

### 8. Exposure Controls/Personal Protection

Engineering Controls: ensure adequate ventilation and eye wash and shower facilities in work area.

Personal Protective Equipment: Wear lab coat, safety glasses and chemical resistant gloves.

### 9. Physical and Chemical Properties

Physical State	Microwells: Solid; Other reagents: Liquid
Boiling Point	Not applicable
Melting Point	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Solubility in water	Microwells: Insoluble; Other reagents: Soluble

### 9. Stability and Reactivity

Stability	Stable; may be combustible at high temperature
Materials to avoid	Strong oxidizing reagents
Hazardous Decomposition	May form carbon dioxide and carbon monoxide

### 10. Toxicological Information

Inhalation	May be harmful if inhaled
Ingestion	May be harmful if ingested
Skin contact	May cause skin irritation
Eye contact	May cause eye irritation

### 12. Ecological Information

No information available

### 13. Disposal Considerations

Dispose of in accordance with local regulations

### 14. Transport Information

DOT: this product is considered to be non-hazardous for transport.

IATA: this product is considered to be non-hazardous for air transport.

### 15. Regulatory Information

No information available

### 16. Other Information

This product is sold for lab research and development use only and not for use in humans or animals. Persons should be familiar with chemicals and be well trained to handle this product.

*For lab use only, not for diagnostic or therapeutic work.*