

**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Code** NBP3-18223  
**Product Name** Human RIPK1/RIP1 ELISA Kit (Colorimetric)  
**Company Information**

Novus Biologicals, LLC 10771 E Easter Ave, Centennial CO CO  
 80112 Phone: 1-888-506-6887 | www.novusbio.com

**SECTION 2: HAZARDS SUMMARIZING**

**Emergency summary**

excessive exposure requires special first aid measures and medical follow-up. Fire: use carbon dioxide, sand, powder fire extinguisher. If necessary, wear self-contained breathing apparatus to put out the fire.

**GHS hazard classification**

not hazardous substances or mixtures according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture

Chemical Name	CAS-No	Content	Classification
Antibody Coated Plate	-	-	Not hazardous at this concentration
Standard Lyophilized	-	-	Not hazardous at this concentration
Concentrated Biotin Conjugate Antibody (100x)	-	50% glycerol	Not hazardous at this concentration
Streptavidin-HRP Concentrated (100x)	-	50% glycerol	Not hazardous at this concentration
Standard/Sample Diluent (R1)	-	TBS with 1% BSA and 0.01% proclin 300	Not hazardous at this concentration
Biotin Conjugate Antibody Diluent (R2)	-	1xTBS with 1% BSA and 0.01% proclin 300	Not hazardous at this concentration
Streptavidin-HRP Diluent(R3)	-	1xTBS with 1% BSA and 0.01% proclin 300	Not hazardous at this concentration

Wash Buffer(25x)	-	1% tween-20, 0.33% Thymol, in 25X TBS	Not hazardous at this concentration
TMB Substrate	-	0.05%3,3',5,5'tetramethylbenzidine	Not hazardous at this concentration
Stop Solution	-	1M H2SO4	Not hazardous at this concentration

#### SECTION 4: FIRST AID MEASURES

<b>Skin contact</b>	flush carefully with water for a few minutes. If symptoms appear, seek medical advice.
<b>Eye contact</b>	immediately rinse with plenty of water for at least 15 minutes, including the region under the eyelids. If symptoms continue, please immediately call a doctor.
<b>Ingestion</b>	do not feed anything through the mouth of unconscious patients. If symptoms persist, please immediately call a doctor.
<b>Do not induce vomiting without medical advice.</b>	
<b>Inhalation</b>	move to fresh air area. If symptoms continue, please immediately call a doctor. If breathing stops, please give artificial respiration.

#### SECTION 5: FIRE-FIGHTING MEASURES

##### Special risk description

no data available

##### Fire extinguishing method or agent

use carbon dioxide, sand, powder to extinguish fire.

##### Fire precautions and measures

If necessary, wear self-contained breathing apparatus to put out the fire.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### Protective measures, protective equipment and emergency procedures for operators

Use personal protective equipment. Avoid dust formation. Avoid breathing vapor, smoke or gases. Ensure adequate ventilation. Evacuate to a safe area. Avoid breathing dust.

##### Environmental protection measures

Excessive exposure requires special first aid measures and medical follow-up. Fire: use carbon dioxide, sand, powder fire extinguisher. If necessary, wear self-contained breathing apparatus to put out the fire.

##### Methods of storage and removal of the spilled chemicals and the materials used for disposal

Containment of the spill, collection of the spill with an electricity-proof vacuum cleaner or wet brush, and place the spill into containers for disposal according to local regulations.

#### SECTION 7: HANDLING AND STORAGE

##### Precautions for safe handling

Avoid contact with skin and eyes. Prevent the formation of dust and aerosols. Provide suitable exhaust equipment where dust is generated. Prevent inhalation of steam and smoke. Keep away from the fire. - NO FIREWORKS. Measures should be taken to prevent electrostatic accumulation.

##### Precautions for safe storage

Store in a cool place. Keep containers closed and stored in a dry, ventilated place.

##### Incompatibility

See part 10.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits in the workplace

<b>MAC(mg/m3)</b>	no data available
<b>PC-STEL(mg/m3)</b>	no data available
<b>TLV-TWA(mg/m3)</b>	no data available
<b>PC-TWA(mg/m3)</b>	no data available
<b>TLV-C(mg/m3)</b>	no data available
<b>TLV=STEL(mg/m3)</b>	no data available

### Detection method

no data available

### Engineering control

closed production process, enhance ventilation. Provide safe shower and eye wash facilities

### Exposure control

Respiratory protection: if the risk assessment indicates the use of air-purifying gas masks, please use full-face multi-function gas masks or gas mask canister as alternate engineering control. If a gas mask is the only way of protection, use a full-face gas supplied mask. Use respirators and parts that have been tested and passed government standards.

<b>Hand protection</b>	wear chemical-resistant gloves
<b>Eye protection</b>	wear chemical safety glasses.
<b>Skin and body protection</b>	wear chemical protective clothing.
<b>Other protection</b>	NO smoking at work. After work, shower and change clothes. Pay attention to personal hygiene.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### **Describes the physically appearance and chemical properties of the chemical, including.**

the appearance and properties, PH value, the boiling point, the melting point, relative density (water = 1), relative vapor density (air = 1), the saturated vapor pressure, heat of combustion, critical temperature, critical pressure, octanol/water partition coefficient, flash point, ignition temperature, explosion limit, solubility, main USES and other special physical and chemical properties.

<b>appearance</b>	Liquid	
<b>smell</b>	odorless	
<b>boiling point/boiling range</b>	°C no data available	
<b>melting point/melting range</b>	°C no data available	° F no data available
<b>flash point</b>	°C no data available	° F no data available
<b>autoignition temperature</b>	°C no data available	° F no data available
<b>oxidability</b>	unavailable information	° F no data available
<b>water solubility</b>	no data available	
<b>viscosity</b>	no data available	

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## SECTION 10: STABILITY AND REACTIVITY

<b>Stability</b>	stable under normal conditions
<b>hazardous reaction</b>	no data available
<b>Conditions to avoid</b>	no data available
<b>Incompatible substance</b>	no data available
<b>Dangerous decomposition products</b>	no data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

no harm

### Potential health effects

<b>Eyes</b>	May cause eye irritation in susceptible people
<b>Skin</b>	May cause eye irritation in susceptible people
<b>Inhalation</b>	Harmful by inhalation
<b>Ingestion</b>	Swallowing may be harmful
<b>Carcinogenesis</b>	N/A
<b>Mutagenic effect</b>	N/A
<b>Reproduction toxicity</b>	N/A
<b>Allergenicity</b>	N/A
<b>Target organ effect</b>	no known effects on normal use conditions

## SECTION 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Contains no substances that are dangerous to the environment
<b>Mobility</b>	No useful information
<b>Biodegradability</b>	No useful information
<b>Biocumulativity</b>	No useful information

## SECTION 13: DISPOSAL

Dispose of contents and containers in accordance with local regulations and laws.

## SECTION 14: TRANSPORT INFORMATION

### IATA

<b>Correct transport name</b>	not dangerous goods in the legal sense of transport
<b>Hazard category</b>	N/A
<b>Subcategory</b>	N/A
<b>Packaging group</b>	N/A
<b>UN number</b>	N/A

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**SECTION 15: REGULATORY INFORMATION**

**International directory** Conform

**SECTION 16: OTHER INFORMATION**

Reason for Revision (M)SDS sections updated.  
Revision Date Dec-6-2016

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