

SAFETY DATA SHEET (SDS)

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

Product Name: CoraLite[®]Plus 555-Tyramide Reagent

Catalog Number: PR30023

Component Name: Tyramide Reagent, Amplification Buffer

Company/undertaking Identification:

Proteintech Group, Inc

5500 Pearl Street

Suite 400

Rosemont, IL 60018

312-455-8498

Emergency telephone number:

312-455-8498, ext 802

2. HAZARDOUS IDENTIFICATION:

GHS Classification of the substance or mixture

Flammable liquids	Category 3
Acute toxicity, Oral	Category 5
Acute toxicity, Inhalation	Category 4
Acute toxicity, Dermal	Category 4
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B

GHS label elements

Signal Word: Danger

Hazard pictograms:



Health hazards:

H303-May be harmful if swallowed.

H332-Harmful if inhaled.

H312-Harmful in contact with skin.

H319-Causes serious eye irritation.

H360-May damage fertility or the unborn child.

Physical hazards: H226-Flammable liquid and vapor.

Environmental hazards: Not Hazardous

Hazard Statements:

H226-Flammable liquid and vapor.

H303-May be harmful if swallowed.

H312 + H332-Harmful in contact with skin or if inhaled.

H319-Causes serious eye irritation.

H360-May damage fertility or the unborn child.

Precautionary Statements

Prevention:

P201-Obtain special instructions before use.

P202-Do not handle until all safety precautions have been read and understood.

P210-Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P233-Keep container tightly closed.

P240-Ground/bond container and receiving equipment.

P241-Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242-Use only non-sparking tools.

P243-Take precautionary measures against static discharge.

MSDS V6 04.18.18 JL

P261-Avoid breathing mist or vapors.

P264-Wash skin thoroughly after handling.

P271-Use only outdoors or in a well-ventilated area.

P280-Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312-Call a POISON CENTER/ doctor if you feel unwell.

P337 + P313-If eye irritation persists: Get medical advice/ attention.

P370 + P378-In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235-Store in a well-ventilated place. Keep cool.

P405-Store locked up.

Disposal: P501-Dispose of contents/ container to an approved waste disposal plant.

Other hazards: Rapidly absorbed through skin.

3. INGREDIENT COMPOSITION/ INFORMATION:

Tyramide Reagent:

Chemical Name	Concentration(%, w/w)	CAS.NO.
DMSO	50%	Cas# 67-68-5
DMF	50%	Cas# 68-12-2
Dye	<0.01%	/

Amplification buffer:

Chemical Name	Concentration(%, w/w)	CAS.NO.
PEG	<2%	Cas# 25322-68-3
Sodium diphosphate	<0.5%	Cas# 7722-88-5
H ₂ O ₂	<0.01%	Cas# 7722-84-1
NaCl	0.8%	Cas# 7647-14-5
Tris hydrochloride	<2%	Cas# 1185-53-1
Proclin-300	0.1%	Cas# 96118-96-6

4. FIRST AID MEASURES:

General Advice	Consult a physician. Show this Safety Data Sheet to the doctor in attendance.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction Get medical attention if symptoms occur. If symptoms persist, consult a physician.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms and effects: both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, light headedness, chest pain, muscle pain, or flushing.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

Advice for emergency responders: For further assistance, contact your local Poison Control Center.

Protection of first-aid responders: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or appropriate foam.

Unsuitable extinguishing media: No information available.

Special hazards arising from the substance or mixture: Not known. Advice for fire-fighters:

Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES:

Wear appropriate personal protective clothing (Section 8). Mop up with an absorbent cloth and arrange removal by a disposal company. Wash site of spillage thoroughly with water and detergent and prevent further leakage or spillage if safe to do so. No special environmental precautions required.

7. HANDLING AND STORAGE:

Use only in area provided with exhaust ventilation. Avoid contact with skin, eyes and clothing.

Wear appropriate protective clothing (Section 8). Keep container tightly closed, and in a cool, well-ventilated area. Store at -20°C. Avoid repeated thawing and freezing.

8. EXPOSURE CONTROLS/PPE:

Follow good laboratory practice when handling this product. Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice

Recommended personal protection equipment

Eye protection: Laboratory safety goggles.

Hands: Chemical resistant gloves.

Skin: Laboratory protective clothing.

Respiratory: Fume hood or in areas with adequate ventilation..

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Clear liquid

Odor: None

Melting point/melting range: Untested

Boiling point/boiling range: Untested

Flash point: Untested

Autoignition temperature: Untested

Decomposition temperature: Untested

Evaporation rate: Untested

Flammability: Untested

Upper explosion limit: Untested

Lower explosion limit: Untested

Vapor pressure: Untested

Relative density: Untested

Specific gravity: Untested

Solubility: Untested

Partition coefficient: Untested

Explosive properties: Untested

10. CHEMICAL STABILITY AND REACTIVITY:

Reactivity: None known

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: None reported

FOR LAB RESEARCH USE ONLY NOT FOR USE IN HUMANS OR ANIMALS

Conditions to avoid: No information available

Incompatible materials: No dangerous reaction known

Hazardous decomposition products: None

11. TOXICOLOGICAL INFORMATION:

Acute toxicity:

DMSO: Oral Rat, LD50, 28,300 mg/kg

DMF: Oral Rat, LD50, 3,010 mg/kg

Sodium diphosphate: Oral Rat, LD50, 4000 mg/kg

H₂O₂: Oral Rat, LD50, 1518 mg/kg

NaCl: Oral Rat, LD50, 3,000 mg/kg

Tris hydrochloride: Oral Rat, LD50, 5,900 mg/kg

Proclin-300: Oral Rat, LD50, 862 mg/kg

Inhalation: May be irritating to mucous membranes and upper respiratory tract.

Eye contact: May cause irritation

Skin contact: May cause irritation

Ingestion: May be harmful if swallowed

Carcinogenic effects: Not available

Mutagenic effects: Not available

Reproductive toxicity: Not available

STOT - Single exposure: Not available

STOT - Repeated exposure: Not available

Teratogenic effects: Not available

12. ECOLOGICAL INFORMATION:

Data not yet available.

13. DISPOSAL CONSIDERATIONS:

Dispose of waste in accordance with local and national regulations.

14. TRANSPORT INFORMATION:

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION:

US Federal Regulations

TSCA Inventory: DMSO, DMF

SARA 313: DMF

Clean Air Act, Section 112 Hazardous Air Pollutants: This product does not contain HAPs.

US State Regulations

California Proposition 65: DMF

WHMIS Hazard Class:

DMSO, flammable liquid

DMF, Toxic (irritant), flammable liquid

16. OTHER INFORMATION:

Reason for revision: SDS sections update

Revision number: 0

Revision: 08/26/2025

The above information is believed to be correct but should only be used as a guide for experienced personnel. Proteintech Group Inc. will not be liable for any damage resulting from the handling of or from contact with the above product.

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

Proteintech Group, USA,
5400 Pearl Street, Suite 300
Rosemont, IL 60018, USA
t 1-888-478-4522
f 1-312-4558408

Proteintech Europe,
4th Floor, 196 Deansgate, Manchester,
M3 3WF
t (+44)-161-83-93-007
f (+44)-161-24-13-103

San Ying Biotechnology, China,
D3-3, No.666 Gaoxin Avenue, Wuhan East Lake
Hi-tech Development Zone, Wuhan, P.R.C.
t 86-27-87531629
f 86-27-87531627