

Technical Datasheet

Product Name: NexGen HM RIPA Buffer with Protease Inhibitor

Catalogue Number: BPBOI023

Concentration: 1X

Introduction:

NexGen HM RIPA (Radio-Immunoprecipitation Assay) Buffer with Protease Inhibitor is a powerful and versatile lysis buffer designed for the efficient extraction of total proteins from various cell and tissue types. This buffer is pre-formulated with a robust protease inhibitor, providing broad-spectrum protection against proteolytic degradation. NexGen HM RIPA Buffer is an ideal solution for researchers looking for a reliable, ready-to-use reagent for protein extraction, immunoprecipitation, and Western blotting applications.

Product Description:

NexGen HM RIPA Buffer with Protease Inhibitor is a ready-to-use reagent that combines the potent lysis capabilities of RIPA buffer with a comprehensive protease inhibitor cocktail. This dual-action buffer efficiently lyses cells and tissues while simultaneously protecting proteins from degradation by inhibiting serine, cysteine, aspartic, threonine, glutamic and metalloproteases. NexGen HM RIPA Buffer is optimized for maximum protein yield and integrity, ensuring high-quality results in downstream applications.

Applications:

BioPioneer's NexGen HM RIPA Buffer with Protease Inhibitor is suitable for a wide range of applications, including:

- **Protein Extraction:** Efficiently extracts total proteins from various cell types and tissues while preventing proteolysis.
- **Western Blotting:** Provides high-quality lysates for accurate protein detection and quantification.
- **Immunoprecipitation:** Supports the isolation and study of protein complexes with minimal proteolytic interference.
- **Enzyme Activity Assays:** Protects proteins during extraction, ensuring reliable enzyme activity measurements.

Composition:

NexGen HM RIPA Buffer with Protease Inhibitor is composed of:

- **RIPA Buffer:** Contains a balanced formulation of Tris-HCl, NaCl, NP-40, sodium deoxycholate, and SDS, optimized for efficient lysis of cells and tissues.
- **Protease Inhibitor:** A proprietary blend of serine, cysteine, aspartic, threonine, glutamic and metalloprotease inhibitors pre-formulated into the buffer.

The buffer is provided as a ready-to-use solution and does not require additional dilution or preparation.

Preparation Instructions:

NexGen HM RIPA Buffer with Protease Inhibitor is ready to use. Simply add directly to your cell or tissue sample for lysis. No further preparation is needed.

Storage Conditions:

Store NexGen HM RIPA Buffer with Protease Inhibitor at 4°C cool and dark place. Ensure the buffer is tightly sealed

Warning and Precautions:

Always wear protective gloves, clothing, eye protection, and face protection. Handle tissue samples and cell lysates with care to avoid cross-contamination. Adhere to good clinical laboratory practices when handling clinical samples, and follow standard precautions as outlined in established guidelines. Review the Safety Data Sheet for comprehensive safety instructions.

Safety Information:

NexGen HM RIPA Buffer with Protease Inhibitor Buffer is intended solely for laboratory applications and should not be used for pharmaceuticals, household purposes, or other non-laboratory uses. They contain components that may be harmful if mishandled. Always observe proper laboratory safety protocols, including wearing gloves and safety goggles when handling the buffer. For complete guidance on potential hazards and safe usage, review the Safety Data Sheet (SDS).

Technical Assistance:

At BioPioneer, we are committed to providing top-notch technical support and ensuring its accessibility & reliability. For any technical assistance, please email us at qc@biopioneer.in.