

PRODUCT DATASHEET

Chrometra Membrane ExM

Product code: ER-20 range | Version: V1.0 | Issue date: 01.10.2026

Product Overview

Chrometra Membrane ExM introduces labels into cellular and lipid membranes. Its polymerizable moiety anchors the membrane reagent within the surrounding matrix during polymerization. Membrane ExM is directly fluorescent; Membrane ExM Post introduces reactive groups for subsequent staining with matched reactive dyes.

Recommended application: Membrane staining for expansion microscopy.

Target / function: Lipid membrane labelling and anchoring in polymeric gels.

Compatible sample types: Permeabilized cells.

Product Contents

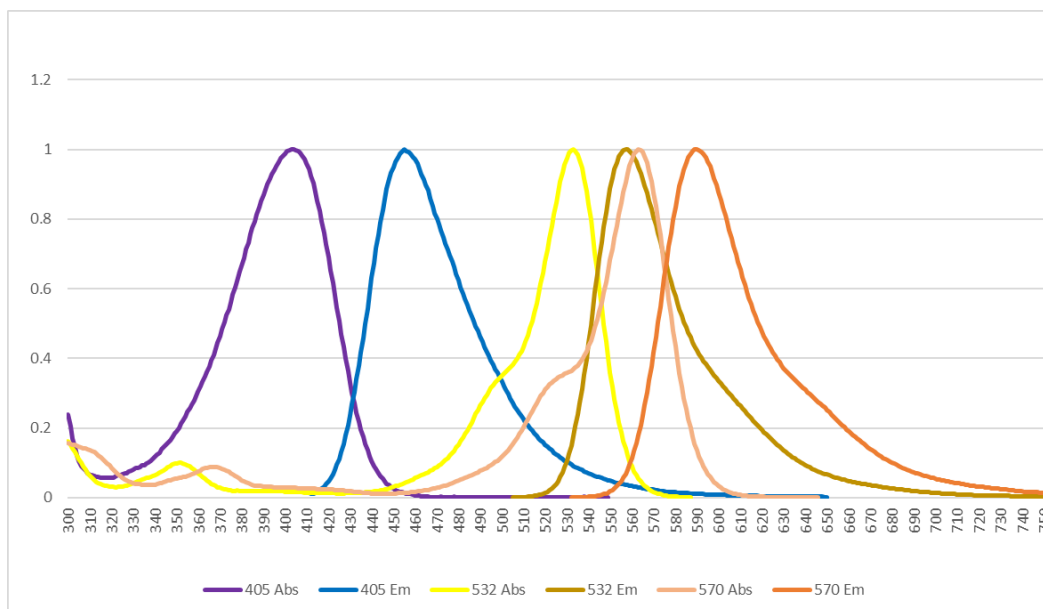
Description	Quantity
Membrane labelling reagent	100 or 300 reactions (1 or 3 vials); 30-reaction samples
Matched fluorescent stain (ExM Post variants)	100 or 300 reactions (1 or 3 vials); 30-reaction samples

Product Variants

Lipid class	Product	Size	Product code
Phospholipid	Membrane ExM PL 405	S	ER-20-35-S
	Membrane ExM PL 405	L	ER-20-35-L
	Membrane ExM PL 532	S	ER-20-37-S
	Membrane ExM PL 532	L	ER-20-37-L
	Membrane ExM PL 561	S	ER-20-36-S
	Membrane ExM PL 561	L	ER-20-36-L
Sphingolipid	Membrane ExM SL 405	S	ER-20-38-S
	Membrane ExM SL 405	L	ER-20-38-L
	Membrane ExM SL 532	S	ER-20-40-S
	Membrane ExM SL 532	L	ER-20-40-L
	Membrane ExM SL 561	S	ER-20-39-S
	Membrane ExM SL 561	L	ER-20-39-L

Product Specifications

Spectral properties:



Wavelength	λ_{abs}	λ_{em}	EC	QY
405	404 nm	452 nm	46000	78%
532	533 nm	557 nm	115000	94%
561	565 nm	588 nm	120000	50%
570	564 nm	590 nm	120000	90%

*Measurements done in PBS

Storage and Handling

Store the product under the recommended conditions upon receipt. Keep the container tightly closed and protect from conditions that may affect product stability. Allow the product to reach the appropriate handling temperature before opening where required.

Storage temperature: -20°C / -4°F upon receipt.

Shelf life: Refer to product label.

Stability after reconstitution: Aliquot stocks in methanol or DMSO and store frozen. Avoid repeated freeze-thaw cycles. Reagents may be stored at 4°C / 39.2°F for three months; use -20°C / -4°F for longer storage.

Light protection: Protect stock solutions and fluorescently labelled specimens from light.

Refer to the Safety Data Sheet for complete safety and handling information.

Protocol list

- Reagent preparation.
- Procedure for membrane grafting (default).
- Example gelation and digestion procedure (4x Expansion).
- Post Gelation staining procedure (Membrane ExM Post).

For more details check the Membrane ExM protocol file

Important Notes and Limitations

- Recommended conditions are provided as a starting point and may require optimisation for specific samples, applications or experimental workflows.
- Prepare working solutions fresh where specified and follow the recommended storage and handling conditions.
- Performance with applications, sample types or workflows not listed in this datasheet has not been evaluated unless otherwise stated.
- Review all product-specific precautions before use and consult the applicable Safety Data Sheet for safety information.

For research use only. Not intended for diagnostic or therapeutic use.

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