

PRODUCT DATASHEET

Chrometra Actin ExM

Product code: ER-10 range | Version: 1.0 | Issue date: 30.09.2026

Product Overview

Chrometra Actin ExM is a polymerizable fluorescent phalloidin reagent for high-resolution biological imaging. It labels F-actin and incorporates into the surrounding polymeric matrix during polymerization, anchoring the fluorescent label within the gel.

Recommended application: F-actin staining for expansion microscopy.

Target / function: F-actin labelling and anchoring in polymeric gels.

Compatible sample types: Fixed, permeabilized cells.

Product Contents

Description

Fluorescent phalloidin derivative

Quantity

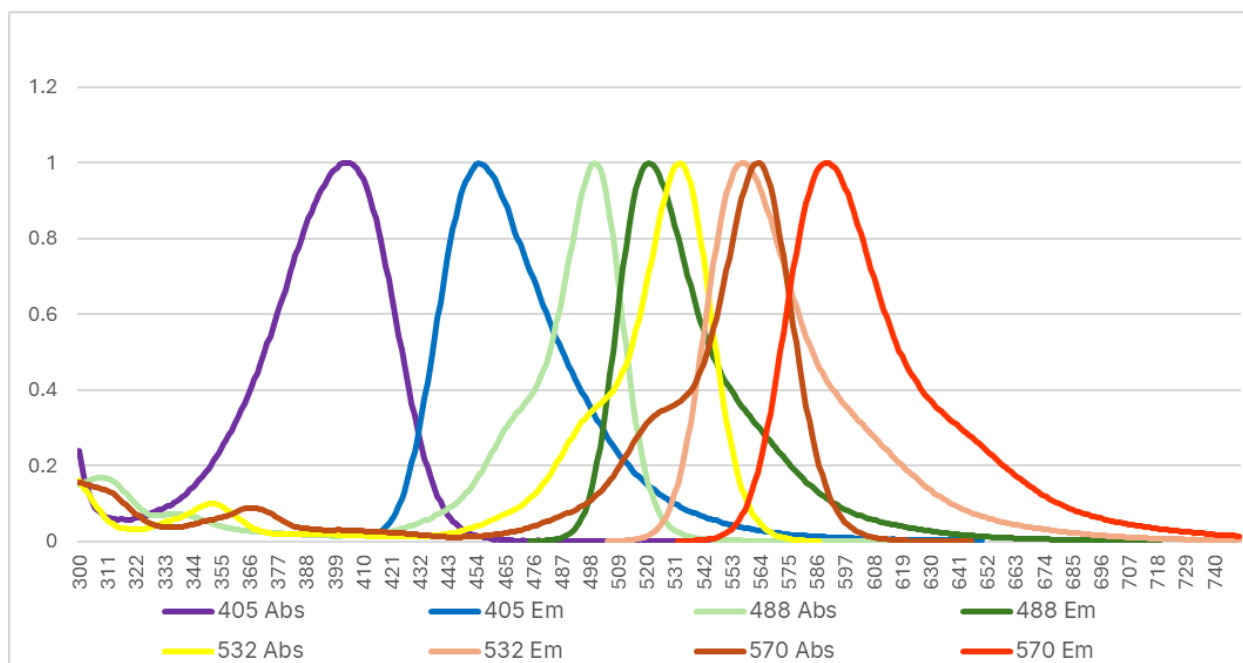
20, 100 or 300 reactions (3 × 100 reactions)

Product Variants

Product	Size	Product code
Actin ExM 405	S	ER-10-1-S
Actin ExM 405	L	ER-10-1-L
Actin ExM 488	S	ER-10-2-S
Actin ExM 488	L	ER-10-2-L
Actin ExM 532	S	ER-10-4-S
Actin ExM 532	L	ER-10-4-L
Actin ExM 570	S	ER-10-7-S
Actin ExM 570	L	ER-10-7-L

Product Specifications

Spectral properties:



Wavelength	λ_{abs}	λ_{em}	EC	QY
405	404 nm	452 nm	46000	78%
488	500 nm	520 nm	950000	80%
532	533 nm	557 nm	115000	94%
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

Shelf life: Refer to product label.

Stability after reconstitution: At least six months in methanol when stored at -20°C, desiccated and protected from light.

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

- Preparing the Stock Solution.
- Procedure: staining fixed, permeabilized cells.
- Post Gelation staining: requires a matched staining reagent. **Confirm which product variants this applies to before including it as a general application.**

For more details check the Actin 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.

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