

AM1-43 (Equivalent to FM®1-43FX)

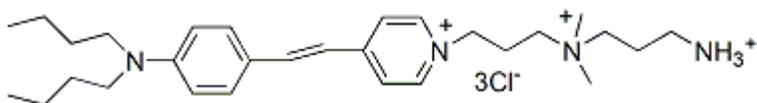
AM1-43 (equivalent to FM®1-43FX) is a fixable, activity-dependent fluorescent nerve terminal probe. AM1-43 functions similarly to SynaptoGreen C4 (catalog # 70020), but with the additional property of being fixable.



Product Description

AM1-43 (equivalent to FM®1-43FX) is a fixable, activity-dependent fluorescent nerve terminal probe. AM1-43 functions similarly to SynaptoGreen™ C4 ([70020](#)), but with the additional property of being fixable. Thus, AM1-43 is a useful tool for synapse studies where subsequent fluorescent immunocytochemistry is desired. AM1-43 and FM®1-43FX have identical excitation and emission wavelengths. Also see AM1-44 (catalog no. [70038](#)), which is similar to AM1-43, but has longer lipophilic tails, resulting in better fixability.

- Ex/Em: 510/625 nm (in MeOH); 480/598 nm (in membranes)
- Red solid soluble in water
- C₂₉H₄₉Cl₃N₄
- MW: 559.5



Product attributes

Probe cellular localization	Membrane/vesicular
For live or fixed cells	For live/intact cells
Assay type/options	Real-time imaging
Fixation options	Fix after staining (formaldehyde), Permeabilize after staining
Colors	Green
Excitation/Emission	480/598 nm (in membranes)

Nerve Terminal Dyes and Kits

Product	Catalog No.	Features
SynaptoGreen™ Dyes (Ex/Em ~480/660 nm in membranes)	70020... 70053	View full list of SynaptoGreen™ Dyes
SynaptoRed Dyes™ (Ex/Em ~510/750 nm in membranes)	70021... 70050	View full list of SynaptoRed™ Dyes
Background Reducers		
ADVASEP-7	70029	Sulfonated cyclodextrin that aids in removal of free dye during washes
SCAS	70037	Quenches extracellular fluorescences with fewer wash steps than ADVASEP-7
Sulforhodamine 101	80101	Red fluorescent dye that quenches extracellular fluorescence of SynaptoGreen™ dyes
Nerve Terminal Staining Kits		
Nerve Terminal Staining Kit I	70030	Includes SynaptoGreen™ C4 and ADVASEP-7
Nerve Terminal Staining Kit II (A)	70031	Includes AM1-43 and ADVASEP-7
Nerve Terminal Staining Kit II (B)	70031-1	Includes AM1-43 and SCAS
Nerve Terminal Staining Kit III	70032	Includes SynaptoGreen™ C4 and Sulforhodamine 101
Nerve Terminal Staining Kit V	70034	Includes SynaptoRed™ C2 and ADVASEP-7

m is the number of carbons in the lipophilic tail and n is the number of double bonds linking the two aromatic rings in the dye.

**The positively-charged end of SynaptoRed C2M is a trimethylammonium group. FM is a registered trademark of Thermo Fisher Scientific.

References

1. PLoS One, 5(8), e12386.
2. Anat Cell Biol 44(4), 274 (2011).

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