

## Nerve Terminal Staining Kits

Nerve Terminal Staining Kits contain Biotium's nerve terminal dyes and accessories for washing away or quenching extracellular dye fluorescence.



### Product attributes

Probe cellular localization	Membrane/vesicular
For live or fixed cells	For live/intact cells
Assay type/options	Real-time imaging
Colors	Green, Far-red

## Product Description

Nerve Terminal Staining Kits contain Biotium's nerve terminal dyes and background reducing agents for washing away or quenching extracellular dye fluorescence. Kits are available with SynaptoGreen™ C4 (equivalent to FM®1-43), the fixable green nerve terminal dye AM1-43, or SynaptoRed™ C2 (equivalent to FM®4-64).

The kits are available with a choice of background reducing agents. ADVASEP-7 is a sulfonated cyclodextrin derivative that has been reported to reduce background fluorescence when using SynaptoGreen™ C4 to stain brain slices. SCAS (4-Sulfonato calix[8]arene, sodium salt) is a quencher developed by Biotium to reduce background fluorescence. Unlike ADVASEP-7, SCAS dramatically lowers background fluorescence as soon as it is added to the preparation without the need for repeated wash steps. Sulforhodamine 101 has been used as a quencher dye to reduce SynaptoGreen™ C4 fluorescence.

See the [Neuronal Probes Flyer](#) for detailed information.

## Nerve Terminal Dyes and Kits

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