

Neuro-Dil

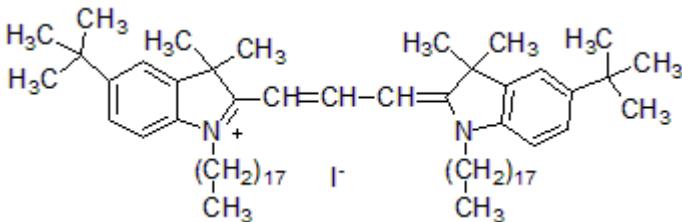
Neuro-Dil was developed at Biotium as an alternative to the widely used fluorescent membrane probe Dil. Neuro-Dil has structural features that may make the probe diffuse faster than Dil on cell membranes and also may result in a more stable labeling.



Product Description

Neuro-Dil was developed at Biotium as an alternative to the widely used fluorescent membrane probe Dil. Like [Dilinoleyl Dil](#), Neuro-Dil has structural features that may make the probe diffuse faster than Dil on cell membranes. However, Neuro-Dil dye has saturated carbon chains, making it more hydrophobic than Dilinoleyl Dil, for potentially more stable labeling with less dye transfer between cells. Neuro-Dil has nearly identical absorption and emission wavelengths to those of Dil. We also offer [Neuro-Dil in Vegetable Oil](#) for microinjection studies. Also see our [CellBrite™ Orange Cytoplasmic Membrane Dye](#), a ready-to-use dye solution for cell labeling.

- $\lambda_{\text{Ex}}/\lambda_{\text{Em}}$ (MeOH) = 549/565 nm
- $\epsilon = 148,000$
- Red solid soluble at 1-2 mM (with heating) in DMF, DMSO, or ethanol
- Soluble at 1-2 mM in vegetable oil with heating and sonication
- Store at 4 °C and protect from light
- $\text{C}_{67}\text{H}_{115}\text{IN}_2$
- MW: 1072



References

1. Proc Natl Acad Sci (2006) Feb 21;103(8):2938-42 doi: 10.1073/pnas.0511159103
2. J Neurosci. (2013) Oct 23;33(43):16853-64 doi: 10.1523/JNEUROSCI.1844-13.2013
3. PLoS One (2013) May 31;8(5):e64907 doi: 10.1371/journal.pone.0064907
4. J Neurosci (2013) Apr 10;33(15):6454-9 doi: 10.1523/JNEUROSCI.0178-13.2013
5. Bioconjug Chem (2014) Dec 17;25(12):2134-43 doi: 10.1021/bc500465j
6. Front Syst Neurosci (2016) Nov 15:10:95 doi: 10.3389/fnsys.2016.00095

Product attributes	
Probe cellular localization	Membrane/cell surface, Membrane/vesicular
For live or fixed cells	For fixed cells, For live/intact cells
Assay type/options	Co-cultures, Extended staining (several days to weeks)
Fixation options	Fix before staining (formaldehyde), Fix after staining (formaldehyde), Permeabilize before staining
Colors	Red
Excitation/Emission	549/565 nm

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Product link: <https://biotium.com/product/neuro-dii/>