

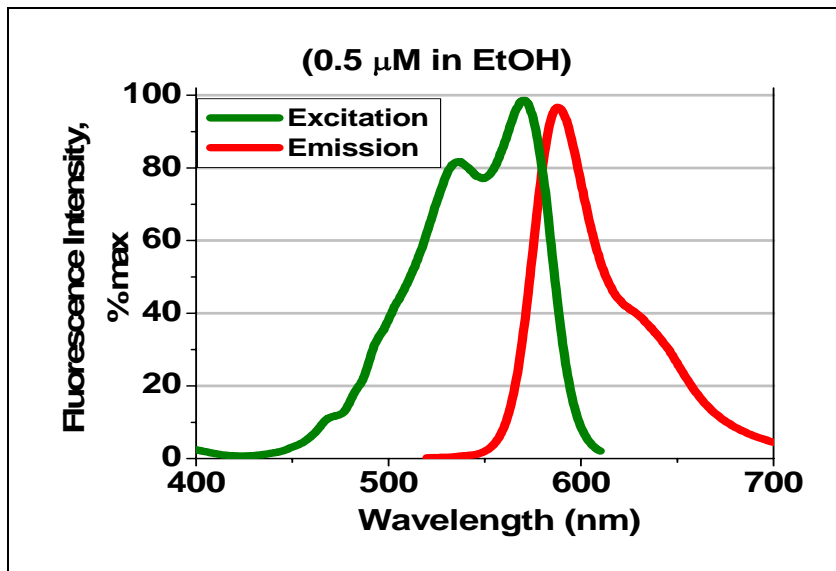


Catalog Number: DY-1001

Product Name: NeuroVue[®] Red Solid

Product Description: 1 mg of solid dye for Neuronal Tract Tracing Applications

Figure 1. Spectra of NeuroVue Red (ex max=567nm; em max=588nm)



Storage/Stability: Store in the dark at room temperature.

Dye Properties: Molecular Weight = 1011
Extinction coefficient at 570nm in ethanol = $115,438 \pm 3545 \text{ M}^{-1}\text{cm}^{-1}$
Solubility in DMF > 200mM
Solubility in DMSO > 200mM

Applications:

For tracing neuronal connections in animal tissues fixed in formaldehyde. Dye can be melted or dissolved in solvent and applied to metal/glass pins or pieces of hair which can then be used for application into small injection sites.

Additional Important Information

- 1) Diffusion times vary depending on the biological system under study and must be determined empirically.

2) Detection of Labeled Cells

a) Confocal microscopy.

Detection is most efficient using the 543nm or 568nm laser line for excitation and emission filter set at 565-615nm.

b) Epifluorescence microscopy.:

Standard filter sets potentially useful for NeuroVue Red excitation and emission include:

- Chroma 41034 : Rhodamine X (or Alexa Fluor 568T) Exciter HQ570/20x , Dichroic Q585LP, Emitter HQ620/60m
- Chroma 31002 : TRITC (Rhodamine)/Dil/Cy3[®], Exciter D540/25x , Dichroic 565DCLP , Emitter D605/55m
- Chroma 41002 : TRITC (Rhodamine)/Dil, Exciter HQ535/50x , Dichroic Q565LP Emitter HQ610/75m

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