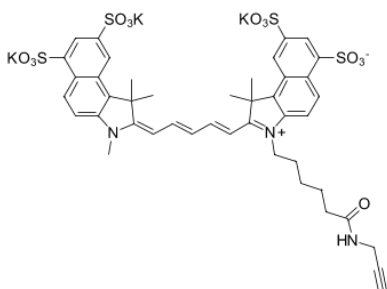
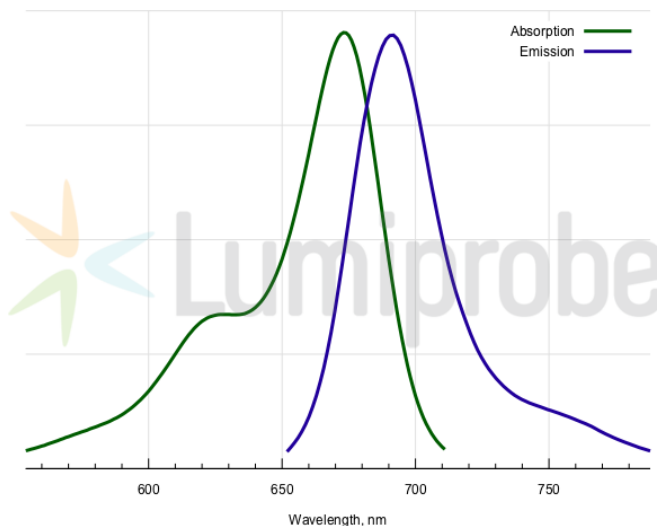


Sulfo-Cyanine5.5 alkyne

Sulfo-Cyanine5.5 is a far red emitting fluorophore. It contains four sulfo groups, which provide great hydrophilicity, and aqueous solubility. The reagent can be conjugated with a variety of azides by means of copper catalyzed Click chemistry reaction.



Sulfo-Cyanine5.5 alkyne



Sulfo-Cyanine5.5 absorption and emission spectra

General properties

Appearance: dark blue solid
Molecular weight: 1054.36
Molecular formula: $C_{40}H_{46}N_2K_4O_{11}S_4$
IUPAC name: (E)-4-[(2E,4E)-5-(3,3-Dimethyl-5-[6-oxo-6-(2-propynylamino)hexyl]-10-(oxysulfonyl)-12-sulfo-5-azatricyclo[7.4.0.0(2,6)]trideca-1,4,6,8,10,12-hexaen-4-yl]-2,4-pentadienylidene]-3,3-dimethyl-5-methyl-5-azatricyclo[7.4.0.0(2,6)]trideca-1,6,8,10,12-pentaene-10,12-disulfonic acid tripotassium salt
Solubility: good in water, DMF, DMSO
Quality control: NMR 1H , HPLC-MS (95%)
Storage conditions: Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation maximum, nm: 673
 ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$: 235000
Emission maximum, nm: 691
 CF_{667} : 0.09
 CF_{685} : 0.11