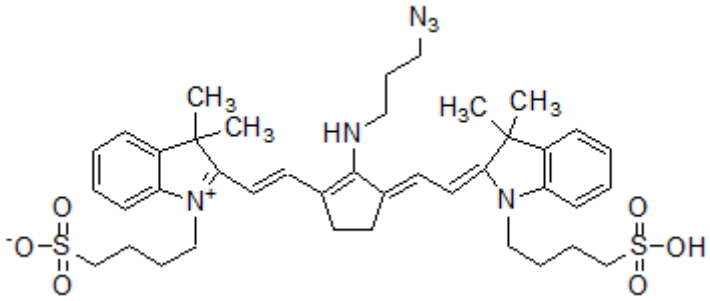
89524 Azide Cyanine Dye 728, for copper catalyzed

Dye for "click" biological labelling

The dyes for „click" biological labelling, licensed by LuminoChem are virtually covering the whole visible spectrum reaching the infra-red regime. Besides dyes that are being capable of participating in classical copper catalyzed 1,3-dipolar cycloaddition reaction with the counterparting function, we also provide dyes containing cyclooctyne moiety an alkyne derivative that enables copper free clicking to azides.
These dyes are noteworthy for their large Stokes-shift (120 or 125 nm). Dyes for this kind are exceptionally useful in fluorescence resonance electron transfer (FRET) applications as they do not interfere with the spectral bands of the second fluorophore a common problem in FRET technology. Azido sugars have been used for click-labeling of surface glycoproteines, recently. We have adapted this system to demonstrate4 the ability of our dyes to undergo bioorthogonal labeling reaction, efficiently.

Properties :
- Clickable functionalities
- Soluble in water, ethanol, DMF, DMSO
- Zero net charge
- Bright fluorescence
- NIR emission



Ex / em= 664 / 718 nm (in ethanol)
Molar absorbance = 100 000 $M^{-1}cm^{-1}$

Storage :
Store at –20°C

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.