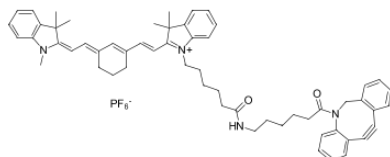


Cyanine7 DBCO

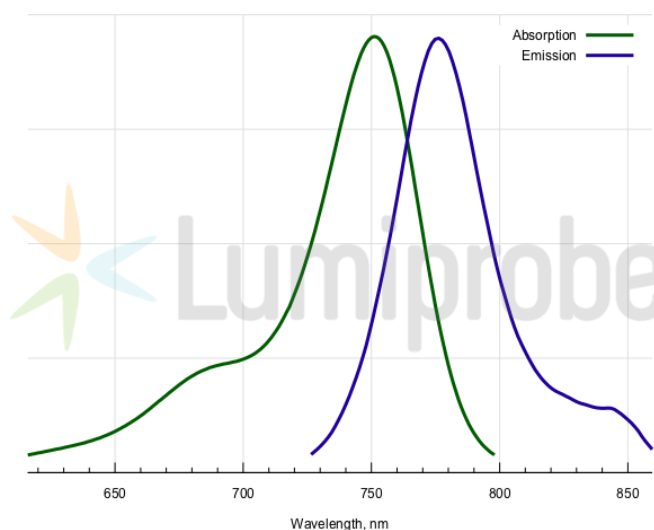
<http://www.lumiprobe.com/p/cy7-dbc>

Cyanine7 DBCO is a NIR fluorescent dye with cycloalkyne moiety for the conjugation with azides by means of copper-free, strain-promoted alkyne-azide cycloaddition (SPAAC).

Azodibenzocyclooctyne (DBCO or ADIBO) fragment is a stable but active cycloalkyne that reacts very rapidly with azides.



Structure of Cyanine7 DBCO



Absorption and emission spectra of Cyanine7 fluorophore

General properties

Appearance:	dark green solid
Mass spec M+ increment:	849.5
Molecular weight:	885.62
CAS number:	2692677-77-1
Molecular formula:	C ₅₈ H ₆₅ N ₄ ClO ₂
Solubility:	good in DMF, DMSO, DCM
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 12 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/absorption maximum, nm:	750
ε, L·mol ⁻¹ ·cm ⁻¹ :	199000
Emission maximum, nm:	773
Fluorescence quantum yield:	0.3