

Lumiprobe Corporation

115 Airport Dr Suite 160 Westminster, Maryland 21157

USA

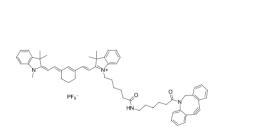
Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

Cyanine7 DBCO

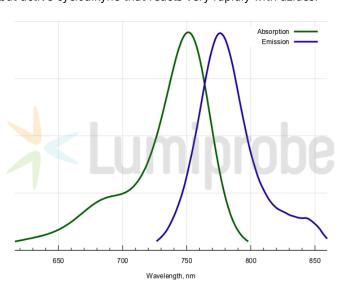
http://www.lumiprobe.com/p/cy7-dbco

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: $C_{58}H_{65}N_4CIO_2$

Solubility: good in DMF, DMSO, DCM

Quality control: NMR ¹H, HPLC-MS (95%)

Storage conditions: Storage: 12 months after receival 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