

Cyanine3 DBCO

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Azodibenzocyclooctyne (DBCO or ADIBO) is a stable but very reactive cycloalkyne for copper-free click chemistry.

This reagent is a conjugate of DBCO with Cyanine3 fluorophore for the non-catalyzed, strain promoted reaction with azides.





Structure of Cyanine3 DBCO

Absorption and emission spectra of Cyanine3 fluorophore

General properties	
Appearance:	dark red powder
Molecular weight:	902.99
CAS number:	2692677-79-3
Molecular formula:	$C_{51}H_{57}N_4O_2PF_6$
Solubility:	good in DMF, DMSO, DCM, alcohols, practically insoluble in water (< 1 uM, < 1 mg/L)
Quality control:	NMR ¹ H, 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:	555
ε, L·mol ⁻¹ ·cm ⁻¹ :	150000
Emission maximum, nm:	570
Fluorescence quantum yield:	0.31