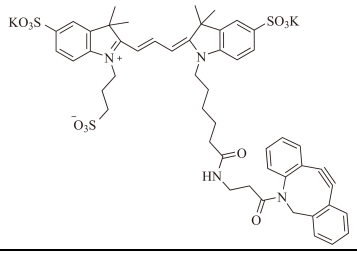
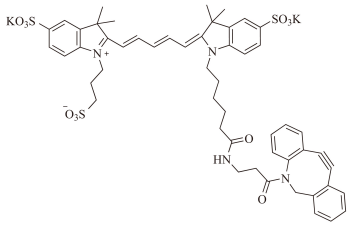
Product Information

DBCO-Cy Dye

Catalog No.	Name	Size	Color	Abs_{max}/Em (nm)	Extinction coefficient(ε)	MW
DC0066	DBCO-Cy3-3	1 mg	Red solid	549/563	162,000	1059.4
DC0067	DBCO-Cy5-3	1 mg	Blue solid	646/662	271,000	1085.4

Name	Molecular Formula	Molecular Structure
DBCO-Cy3-3	$C_{50}H_{52}K_2N_4O_{11}S_3$	
DBCO-Cy5-3（	$C_{52}H_{54}K_2N_4O_{11}S_3$	

Storage

Store desiccated at -20℃ and protect from light. Expiration date marked on the outer packing.

Description

This azadibenzo cyclooctyl cyanine dye derivative is a general labeling reagent, which is often used to detect molecules or compounds containing azides. Cyclooctene compounds can be used to promote copper free cycloaddition reaction of azine. This dibenzocyclooctene will react with compounds or biomolecules containing azide functional groups and produce stable triazole bonds without Cu^{2+} catalyst. Because it does not contain metal ion catalyst, it will not cause cytotoxicity. It is suitable for the in vivo application of bioorthogonal chemistry or bioorthogonal click chemistry.

In addition, compared with traditional DBCO-Cy3 and DBCO-Cy5, DBCO-Cy3-3 and DBCO-Cy5-3 are more water-soluble.

Notes

1. There are quenching problems with fluorescent dyes. Please avoid light to slow down the fluorescence quenching.
2. For your safety and health, please wear lab coats and disposable gloves.

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