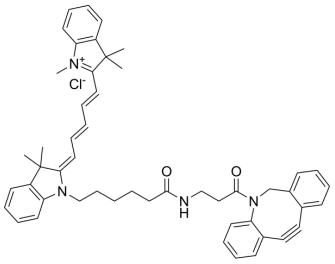
Cy5 DBCO chloride

Cat. No.:	HY-D1625
CAS No.:	2182601-72-3
Molecular Formula:	$C_{50}H_{53}ClN_4O_2$
Molecular Weight:	777.43
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cy5 DBCO chloride is an azide reaction probe and the addition of DBCO molecules allows the imaging of azide-labelled biomolecules by a copper-free "Click Chemistry" reaction[1]. Cy5 DBCO (chloride) is a click chemistry reagent, it contains a DBCO group that can undergo strain-promoted alkyne-azide cycloaddition (SPAAC) with molecules containing Azide groups.
In Vitro	Cy5 DBCO chloride (2-50 μM) can control the extent of labelling by varying the concentration of DBCO-Cy5 in a dose-dependent manner, with the amount of DBCO-Cy5 bound at the cell surface increasing with increasing DBCO-Cy5 concentration[1]. Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). 1.Incubate the cells at a density of 3×10^4 cells in a cell culture dish for 3 days and then wash the cells twice with DPBS (pH 7.4). Incubate the cells according to your normal protocol. 2.Incubate the cells with Cy5 DBCO chloride at a final concentration of 20 μM for 1 h at 37°C. 3.After incubation, wash cells with DPBS (pH 7.4) and fix with formaldehyde-glutaraldehyde combination fixative for 15 min at room temperature. 4.After fixation, wash cells twice with DPBS (pH 7.4). Analyze sample on a flow cytometer, fluorescence microscopy, or fluorescence microplate reader. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sun-Woong Kang, et al. Cell labeling and tracking method without distorted signals by phagocytosis of macrophages. Theranostics. 2014 Feb 12;4(4):420-31.

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