Corning® DiIC$_{12}$(3) Fluorescent Dye

Catalog No. 354218

Guidelines for Use

Discovery Labware, Inc., Two Oak Park, Bedford, MA 01730, Tel: 1.978.442.2200 (U.S.)
CLSTechServ@Corning.com www.corning.com/lifesciences

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For Research Use Only. Not for use in diagnostic or therapeutic procedures.

INTENDED USE

Corning® DiIC$_{12}$(3) is a lipophilic neuronal tracer that is commonly used for labeling of neuronal projections as well as lipid bilayers in other cells. The low toxicity and minimal effects on cell viability of DiIC$_{12}$(3) indicate its use in pre-labeling cells for migration studies.

Corning DiIC$_{12}$(3) Fluorescent Dye can be used to fluorescently label viable cells for a variety of kinetic assays such as tumor cell invasion and endothelial cell migration.

MATERIAL PROVIDED

Corning DiIC$_{12}$(3) Fluorescent Dye, 100 mg/vial

RELATED PRODUCTS (not supplied)

Corning FluoroBlok™ Cell Culture Inserts
Corning FluoroBlok 24- and 96-Multiwell Insert Systems
Corning BioCoat™ Angiogenesis Systems
Corning BioCoat Tumor Invasion Systems

For information about available products from BD Biosciences, go to our website at:
www.corning.com/lifesciences

GENERAL USE

Allow the vial to equilibrate to room temperature. Reconstitute to desired concentration using high grade, anhydrous DMSO (or dimethylformamide or ethanol). The reconstituted stock can be used or stored in aliquots at -20ºC. To avoid decomposition of the dye, maintain frozen stock solutions under desiccation. Avoid repeated freeze-thaw cycles.

Corning DiIC$_{12}$(3) is most frequently used at a working concentration between 0.5 - 25 µg/ml and staining time of 5 minutes – 2 hours, depending on cell type and application.

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RECOMMENDATIONS FOR USING CORNING® DiIC$_{12}$(3) FLUORESCENT DYE WITH CORNING BIOCOAT™ FLUOROBLOK™ MULTIWELL INSERT SYSTEMS

Corning BioCoat FluoroBlok Multiwell Insert Systems contain a fluorescence blocking polyethylene terephthalate (PET) membrane that blocks >99% of the excitation and emission wavelengths of fluorophores commonly used to label cells.

For pre-labeling cells (*e.g.*, for cell migration or cell invasion assays):

Label monolayers (or suspension cells in culture) *in situ* using 10 µg/ml DiIC$_{12}$(3) in growth medium (*e.g.*, DMEM containing 10% FBS) for one hour at 37ºC. Wash cells with saline solution and resuspend in assay medium.

Measure fluorescence at 549/565 nm (Abs/Em).

Please note that these guidelines are not specific for every situation; more specific protocols can be obtained from the literature or determined empirically.

STORAGE AND STABILITY

Stable when stored at -20°C, protected from light. Avoid multiple freeze-thaws. Do not store in frost-free freezer. **KEEP FROZEN**.

TECHNICAL SERVICE

For technical assistance, contact Technical Support at:
tel: 800.492.1110, fax: 978.442.2476; email: CLSTechServ@corning.com.

CUSTOMER SERVICE

To place an order in the U.S., contact Customer Service at:
tel: 800.492.1110, fax: 978.442.2476; email: CLSCustServ@corning.com.

Outside the U.S., contact your local distributor or visit:
www.Corning.com/lifesciences to locate your nearest Corning office.

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