Cell-ID Intercalator-Ir—500 µM

Catalog: 201192B
Package size: 500 µL

Storage:

- Upon receiving this product, divide it into aliquots and freeze them at –20 °C.
- Aliquots stored at 4 °C are stable for up to three months.
- Frozen aliquots should be used only once after thawing.

WARNING Before handling any chemicals, refer to the safety data sheet (SDS) provided by the manufacturer, and observe all relevant precautions.

Description

Cell-ID™ Intercalator-Ir is a cationic nucleic acid intercalator that contains natural abundance iridium (^{191}Ir and ^{193}Ir) and is used for identifying nucleated cells in CyTOF® system analysis. When cells are stained with Intercalator-Ir, it binds to cellular nucleic acid, and detection of both stable isotopes enables identification of nucleated cells. It is a live-cell membrane-impermeable dye and therefore requires cells to be fixed and/or permeabilized before staining.

Important Product Notes

- Cell-ID Intercalator-Ir 500 µM is a highly concentrated metal intercalator solution. It must be diluted in accordance with this protocol to avoid early failure of the detector.
- While dilutions of the 500 µM stock solution are suggested in the protocol below, the concentration can be titrated for individual cell types and experiments for optimal Cell-ID Intercalator staining. It is suggested that the intercalator concentration in the staining solution not exceed 1 µM.

Staining Protocol

1. After cell staining is complete, prepare 1 mL of cell intercalation solution for each sample by diluting Cell-ID Intercalator-Ir 1:4,000 into Maxpar® Fix and Perm Buffer (Fluidigm Cat. 201067) and mix by vortexing.
2. Add 1 mL of the intercalation solution prepared in step 1 to each tube and gently vortex. Incubate for one hour at room temperature or leave overnight at 4 °C.

   Note: Cells can be left at 4 °C in the intercalation solution up to 48 hours.

3. Wash cells by adding 2 mL of Maxpar Cell Staining Buffer (Cat. 201068), centrifuge and discard supernatant by aspiration.
4. Repeat for a total of two washes with Maxpar Cell Staining Buffer.
5. Wash cells with 2 mL of Maxpar Water (Cat. 201069), centrifuge and discard supernatant by aspiration.
6. Leave cells pelleted until ready to run on the CyTOF system. Immediately prior to data acquisition, adjust cell concentration to 2.5–5 x 10^5/mL with Maxpar Water and filter cells into cell strainer cap tubes.
7. Acquire data on the CyTOF system.

For technical support visit www.fluidigm.com/support.

North America +1 650 266 6100 | Toll-free (US/CAN): 866 358 4354 | support.northamerica@fluidigm.com **Latin America** +1 650 266 6100 | techsupportlatam@fluidigm.com
Europe/Middle East/Africa/Russia +44 1223 859941 | support.europe@fluidigm.com **China (excluding Hong Kong)** +86 21 3255 8368 | techsupportchina@fluidigm.com
Japan +81 3 3662 2150 | techsupportjapan@fluidigm.com **All other Asian countries/India/Australia** +1 650 266 6100 | techsupportasia@fluidigm.com