Cell-ID Cisplatin-198Pt

**Catalog number, package size:** 201198, 100 μL  
**Concentration:** 1 mM

**Technical Information**

**Description:** Cell-ID™ Cisplatin-198Pt is a monoisotopic preparation of cisplatin containing the 198Pt isotope. Cisplatin is a stain that binds covalently to cellular proteins and labels cells with compromised cell membranes, allowing for greater detection of cell death. Cell-ID Cisplatin-198Pt specifically identifies dead cells if cells are incubated prior to fixation or if it identifies total cells if cells are incubated after cell fixation and permeabilization. Because cisplatin binds covalently to protein, its labeling remains strong through subsequent cell handling steps used in downstream mass cytometry cell staining protocols.

**Important Product Notes**

- **Storage:** Upon receiving this product, aliquot and freeze at −20 °C. Frozen aliquots should be used only once after thawing.
- **Application:** CyTOF® suspension mass cytometry

**Viability Staining Protocol**

1. Wash cells with Maxpar PBS (Cat. No. 201058) or serum-free medium. Centrifuge cells at 300 x g for 5 min, carefully aspirate the supernatant, and gently pipet to mix.
2. Prepare a working solution of the pre-titrated Cell-ID Cisplatin-198Pt concentration by diluting the Cell-ID Cisplatin-198Pt stock in Maxpar PBS or serum-free medium. For example, add 1 μL of 1 mM Cell-ID Cisplatin-198Pt stock to 1 mL of Maxpar PBS or serum-free medium to create a 1 μM Cell-ID Cisplatin-198Pt working solution.
3. Resuspend cells to 1 x 10^7/mL with the working solution of Cell-ID Cisplatin-198Pt.
4. Mix well and incubate at room temperature for 5 min.
5. Quench the cisplatin stain and wash the cells with serum-containing medium or Maxpar Cell Staining Buffer, using at least 5x the volume of the cell suspension. For example, add 5 mL of serum-containing medium or Maxpar Cell Staining Buffer to 1 mL of cell suspension. Centrifuge cells at 300 x g for 5 min, carefully aspirate the supernatant, and gently pipet to mix. Repeat for a total of 2 wash steps.
6. Proceed with staining surface and/or intracellular antigens for analysis by CyTOF suspension mass cytometry.
**Total Cell Staining Protocol**

1. During the last 5 min of incubating cells with Cell-ID Intercalator-Ir (Cat. No. 201192) in Maxpar Fix and Perm Buffer (Cat. No. 201067), add pre-titrated Cell-ID Cisplatin-198Pt to a final recommended concentration of between 0.2 and 1 μM (1,000–5,000X dilution of 1 mM stock). For example, add 1 µL of Cell-ID Cisplatin-198Pt stock to 1 mL of cell suspension in Maxpar Fix and Perm Buffer to create a final 1 μM Cell-ID Cisplatin-198Pt solution.

2. Quench the cisplatin stain and wash the cells with Maxpar Cell Staining Buffer using at least 5x the volume of the cell suspension. For example, add 5 mL of Maxpar Cell Staining Buffer to 1 mL of cell suspension. Centrifuge cells at 300 x g for 5 min, carefully aspirate the supernatant, and gently pipet to mix. Repeat for a total of 2 wash steps.

3. Wash cells with preferred acquisition solution, such as Maxpar Water (Cat. No. 201069) or Maxpar Cell Acquisition Solution (Cat. No. 201240).

4. Proceed with preparing cells for sample acquisition by CyTOF suspension mass cytometry.

**Related Products**

Other monoisotopic cisplatin reagents include: Cell-ID Cisplatin-194Pt (Cat. No. 201194), Cell-ID Cisplatin-195Pt (Cat. No. 201195), Cell-ID Cisplatin-196Pt (Cat. No. 201196).

**References**


**Safety**

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to fluidigm.com/sds and search for the SDS using either the product name or the part number.