

■ Known Property

mouse embryonic stem cell probe

Application

Immunofluorescence

■ Cell selectivity mechanism: GOLD (SLC13A5)

■ Storage

1) Delivery: Room Temperature

2 Dried compound: 4 °C or -20 °C

(3) Compound solution: 4 °C or -20 °C

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■ General Use Guide

Working concentrations for specific applications should be determined by the investigator.

It is recommended to use up the buffer diluted solution within one day Triprecipitated out from buffer solution. It is recommended to use up the buffer diluted solution within one day. The compound may be decomposed or 12e 11/1/2/19

VIENTION OH

Molecular Weight

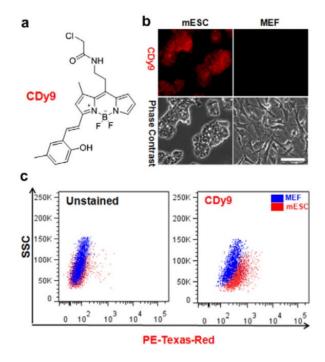
 $\lambda_{ex} / \lambda_{em}$

457.71 (C₂₃H₂₃BCIF₂N₃O₂)

563 / 578 nm

CDy9 (Compound of Designation yellow 9) is a highly selective mouse embryonic stem cell (mES) probe. The selectivity of CDy9 was reduced when the chloroacetyl group was removed, while acetyl derivative maintained the selectivity.

1



CDy9 is a novel and versatile mESC-specific fluorescent probe. (a)Chemical structure of CDy9. (b) CDy9 selectively stains mESC over MEF. Both mESC and MEF were incubated with 1 μM CDy9 and imaged under the fluorescence microscope after 1 h. Scale bar: 25μm. (c) Flow cytometry analysis of mESC and MEF after incubation with CDy9. The fluorescence intensity of mESC upon treatment with CDy9 is brighter than in MEF (right dot plot) and in unstained mESC (left dot plot).

Related probes: CDy1, CDr3, CDb8

Reference

- 1. A highly selective fluorescent probe for direct detection and isolation of mouse embryonic stem cells, Chandran, Y.; Kang, N. Y.; Park, S. J.; Husen, A. S.; Kim, J. Y.; Sahu, S.; Su, D.; Lee, J.; Vendrell, M.*; Chang, Y. T.* Bioorg. Med. Chem. Lett. 2015, 25, 4862-4865.
- 2. A fluorescent chemical probe CDy9 selectively stains and enables the isolation of live naïve mouse embryonic stem cells, Cho, S. J.; Kim, K. T.; Kim, J. S.; Kwon, O. S.; Go, Y. H.; Kang, N. Y.; Heo, H.; Kim, M. R.; Han, D. W.; Moon, S. H.; Chang, Y. T.*; Cha, H. J.* Biomaterials 2018, 180, 12-23.