

Accepted Manuscript

A fluorescent chemical probe CDy9 selectively stains and enables the isolation of live naïve mouse embryonic stem cells

Seung-Ju Cho, Keun-Tae Kim, Jong-Soo Kim, Ok-Seon Kwon, Young-Hyun Go, Nam-Young Kang, Haejeong Heo, Mi-Rang Kim, Dong Wook Han, Sung-Hwan Moon, Young-Tae Chang, Hyuk-Jin Cha

PII: S0142-9612(18)30476-9

DOI: [10.1016/j.biomaterials.2018.07.007](https://doi.org/10.1016/j.biomaterials.2018.07.007)

Reference: JBMT 18750

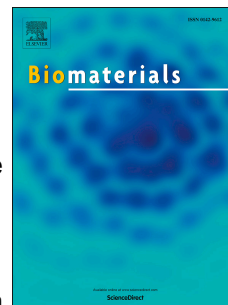
To appear in: *Biomaterials*

Received Date: 5 June 2018

Accepted Date: 4 July 2018

Please cite this article as: Cho S-J, Kim K-T, Kim J-S, Kwon O-S, Go Y-H, Kang N-Y, Heo H, Kim M-R, Han DW, Moon S-H, Chang Y-T, Cha H-J, A fluorescent chemical probe CDy9 selectively stains and enables the isolation of live naïve mouse embryonic stem cells, *Biomaterials* (2018), doi: 10.1016/j.biomaterials.2018.07.007.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



1 **A fluorescent chemical probe CDy9 selectively stains and enables the isolation of**
2 **live naïve mouse embryonic stem cells**

3 **Running Title:** Selective fluorescence probe for naïve mESCs

4 Seung-Ju Cho^{1*}, Keun-Tae Kim^{1*}, Jong-Soo Kim², Ok-Seon Kwon⁸, Young-Hyun
5 Go¹, Nam-Young Kang³, Haejeong Heo⁴, Mi-Rang Kim⁴, Dong Wook Han⁵, Sung-
6 Hwan Moon², Young-Tae Chang^{6,7#} and Hyuk-Jin Cha^{8#}

7 ¹Department of Life Sciences Sogang University 35 Baeckbeom-ro, Mapo-gu, Seoul
8 04107, Republic of Korea ²Department of Medicine, School of Medicine Konkuk
9 University 120 Neungdong-ro, Gwangjin-gu, Seoul 05029, Republic of Korea,
10 ³Singapore Bioimaging Consortium, Agency for Science, Technology and Research,
11 11 Biopolis way, Singapore 138667, 4. ⁴Personalized Genomic Medicine Research
12 Center, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Daejeon,
13 Republic of Korea, ⁵Department of Bioscience and Biotechnology, Bio-Organ
14 Research Center, Konkuk University, Seoul, South Korea, ⁶Department of Chemistry,
15 Pohang University of Science and Technology (POSTECH), Pohang 37673, Republic
16 of Korea, ⁷Center for Self-assembly and Complexity, Institute for Basic Science (IBS),
17 Pohang 37673, Republic of Korea, ⁸College of Pharmacy, Department of Pharmacy,
18 Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of
19 Korea.

20
21 * These authors contributed equally.

22 # To whom correspondence should be addressed to

23 Prof. Hyuk-Jin Cha, Ph.D.

24 College of Pharmacy, Department of Pharmacy, Seoul National University

25 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea

Download English Version:

<https://daneshyari.com/en/article/6484328>

Download Persian Version:

<https://daneshyari.com/article/6484328>

[Daneshyari.com](https://daneshyari.com)