Accepted Manuscript

Nano-sized metabolic precursors for heterogeneous tumor-targeting strategy using bioorthogonal click chemistry *in vivo*

Sangmin Lee, Seulhee Jung, Heebeom Koo, Jin Hee Na, Hong Yeol Yoon, Man Kyu Shim, Jooho Park, Jong-Ho Kim, Seulki Lee, Martin G. Pomper, Ick Chan Kwon, Cheol-Hee Ahn, Kwangmeyung Kim

PII: S0142-9612(17)30610-5

DOI: 10.1016/j.biomaterials.2017.09.025

Reference: JBMT 18271

To appear in: *Biomaterials*

Received Date: 12 July 2017

Revised Date: 3 September 2017

Accepted Date: 18 September 2017

Please cite this article as: Lee S, Jung S, Koo H, Na JH, Yoon HY, Shim MK, Park J, Kim J-H, Lee S, Pomper MG, Kwon IC, Ahn C-H, Kim K, Nano-sized metabolic precursors for heterogeneous tumor-targeting strategy using bioorthogonal click chemistry *in vivo*, *Biomaterials* (2017), doi: 10.1016/j.biomaterials.2017.09.025.

Manuscript for Biomaterials

Nano-sized metabolic precursors for heterogeneous tumor-targeting strategy using bioorthogonal click chemistry *in vivo*

Sangmin Lee [a,1], *Seulhee Jung* [b,c,1], *Heebeom Koo* [d], *Jin Hee Na* [b,e], *Hong Yeol Yoon* [b], *Man Kyu Shim* [b,f], *Jooho Park* [b], *Jong-Ho Kim* [f], *Seulki Lee* [e], *Martin G. Pomper* [e], *Ick Chan Kwon* [b], *Cheol-Hee Ahn* [c,*], *Kwangmeyung Kim* [b,g,*]

[a] Department of Pharmacy, College of Pharmacy, Wonkwang University, 460 Iksandae-ro, Iksan, Jeonbuk 54538, Republic of Korea

[b] Center for Theragnosis, Biomedical Research Institute, Korea Institute of Science and Technology (KIST), Hwarangno 14-gil 5, Seongbuk-gu, Seoul 02792, Republic of Korea

[c] Research Institute of Advanced Materials (RIAM), Department of Materials Science and Engineering, Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea

[d] Department of Medical Lifescience, College of Medicine, The Catholic Univerisity of Korea, 222 Banpo-daero, Seocho-gu, Seoul 06591, Republic of Korea

[e] The Russell H. Morgan Department of Radiology and Radiological Science, Johns Hopkins University School of Medicine, 601 N. Caroline Street, Baltimore, MD 21287, USA

[f] Department of Pharmacy, Graduate School, Kyung Hee University, 26 Kyungheedae-ro, Dongdaemun-gu, Seoul 02447, Republic of Korea

[g] KU-KIST School, Korea University, 145 Anam-ro, Seongbuk-gu, Seoul 02841, Republic of Korea

[1] These authors contributed equally to this work.

* E-mail address: kim@kist.re.kr (K.Kim) or chahn@snu.ac.kr (C.H.Ahn)