

IMS-P11 Benzo[*b*]tellurophene and Benzo[*b*]selenophene Compounds as Potential Histone H3 Lysine 9 Demethylase (KDM4) Inhibitors

Yoon-Jung KIM¹, Dong Hoon LEE^{1,2}, Yong-Sung CHOI¹, So Hee KWON¹, Jin-Hyun JEONG¹

¹College of Pharmacy, Yonsei Institute of Pharmaceutical Sciences, Yonsei University, ²Department of Integrated OMICS for Biomedical Science, Yonsei University

Series of benzo[*b*]tellurophene and benzo[*b*]selenophene compounds were designed and synthesized and they were evaluated for histone H3 lysine 9 demethylase (KDM4) inhibitory activity. Among the carbamates, alcohol and aromatic derivatives, *tert*-butyl benzo[*b*]tellurophen-2-ylmethylcarbamate revealed specific activity compared with the corresponding selenium, oxygen substitute compounds in HeLa cells. Also compound **1c** induced cell death in cancer cells but not in normal cells.

