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Synthesis and structure-activity relationships of quinolinone and quinoline-based P2X7 receptor antagonists and their anti-sphere formation activities at glioblastoma cells

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PII: S0223-5234(18)30266-6

DOI: 10.1016/j.ejmech.2018.03.023

Reference: EJMECH 10288

To appear in: European Journal of Medicinal Chemistry

Received Date: 21 September 2017

Revised Date: 28 February 2018

Accepted Date: 8 March 2018

Please cite this article as: S.-H. Kwak, S. Shin, J.-H. Lee, J.-K. Shim, M. Kim, S.-D. Lee, A. Lee, J. Bae, J.-H. Park, A. Abdelrahman, C.E. Müller, S.K. Cho, S.-G. Kang, M.A. Bae, J.Y. Yang, H. Ko, Y.-C. Kim, Synthesis and structure-activity relationships of quinolinone and quinoline-based P2X7 receptor antagonists and their anti-sphere formation activities at glioblastoma cells, *European Journal of Medicinal Chemistry* (2018), doi: 10.1016/j.ejmech.2018.03.023.

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Synthesis and Structure-Activity Relationships of Quinolinone and Quinoline-based P2X7 Receptor Antagonists and their Anti-sphere Formation Activities at Glioblastoma Cells

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$$\begin{array}{c} \text{NH} & \text{O} \\ \text{NH} & \text{O} \\ \text{NH} & \text{NH} \\ \text{16c, R : CI} \\ \text{11a} & \text{(EtBr IC}_{50} = 4 \text{ nM, IL-1} \beta \text{ IC}_{50} = 7 \text{ nM} \\ \text{17k, R : Ph-(4-CH}_2\text{OH}) \\ \text{(EtBr IC}_{50} = 3 \text{ nM, IL-1} \beta \text{ IC}_{50} = 12 \text{ nM} \\ \end{array}$$

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