

# Accepted Manuscript

From hit to lead: Structure-based discovery of naphthalene-1-sulfonamide derivatives as potent and selective inhibitors of fatty acid binding protein 4

Ding-Ding Gao, Hui-Xia Dou, Hai-Xia Su, Ming-Ming Zhang, Ting Wang, Qiu-Feng Liu, Hai-Yan Cai, Hai-Peng Ding, Zhuo Yang, Wei-Liang Zhu, Ye-Chun Xu, He-Yao Wang, Ying-Xia Li

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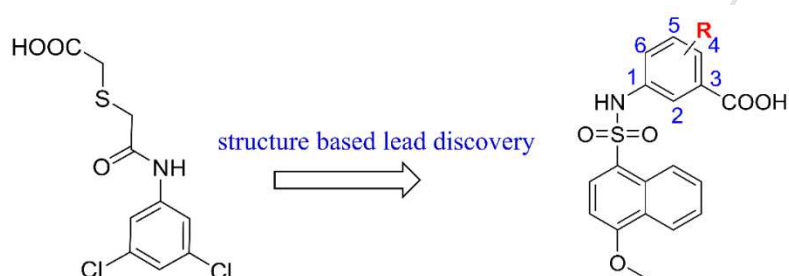
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# From Hit to Lead: Structure-based Discovery of Naphthalene-1-Sulfonamide Derivatives as Potent and Selective Inhibitors of Fatty Acid Binding Protein 4

Ding-Ding Gao,<sup>§</sup> Hui-Xia Dou,<sup>§</sup> Hai-Xia Su,<sup>§</sup> Ming-Ming Zhang,<sup>§</sup> Ting Wang, Qiu-Feng Liu, Hai-Yan Cai, Hai-Peng Ding, Zhuo Yang, Wei-Liang Zhu,\* Ye-Chun Xu,\* He-Yao Wang,\* and Ying-Xia Li \*



**9:** FABP4, Ki: 1.66  $\mu$ M

**16dk:** 4-F, FABP4, Ki: 0.21  $\mu$ M

**16do:** 6-F, FABP4, Ki: 0.20  $\mu$ M

Good selectivity for FABP3

Good metabolic stabilities in liver microsomes

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