## Accepted Manuscript

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 PII:
 S0040-4039(16)30925-X

 DOI:
 http://dx.doi.org/10.1016/j.tetlet.2016.07.068

 Reference:
 TETL 47930

To appear in: Tetrahedron Letters

Received Date:26 June 2016Revised Date:15 July 2016Accepted Date:20 July 2016



Please cite this article as: Wiemann, J., Deckelmann, A.M., Csuk, R., A remarkably simple and convergent partial synthesis of pomolic acid, *Tetrahedron Letters* (2016), doi: http://dx.doi.org/10.1016/j.tetlet.2016.07.068

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## ACCEPTED MANUSCRIPT

## A remarkably simple and convergent partial synthesis of pomolic acid

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Graph abstract



The daily consumption of vegetables and fruits seems to have a positive impact on health. This finding is supported by epidemiological studies correlating the consumption of this foodstuff with a lowered risk of developing cardiovascular diseases and cancer.<sup>1-6</sup> While the over-all risk of getting a cardiovascular disease can be reduced by a variety of known changes in personal lifestyle, the prevention of cancer and its treatment remains difficult, since the high mortality of cancer is often due to metastasis.<sup>7</sup>

Migration of cancer cells has been associated with CXC chemokine receptor type 4 (CXCR4) signaling,<sup>8-10</sup> and the development of CXCR4 inhibitors is an alternative to classical treatment of cancer by chemotherapy. Quite recently, pomolic acid (**PA**, Fig. 1) was identified as a novel inhibitor of CXCR4.<sup>7</sup> In addition, **PA** triggered apoptosis in human ovarian cancer cells,<sup>11</sup> and it inhibited the growth of K562 leukemia cells.<sup>12-14</sup>



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