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# Bioorganic & Medicinal Chemistry

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## Bioorganic & Medicinal Chemistry Volume 23, Issue 5, 2015

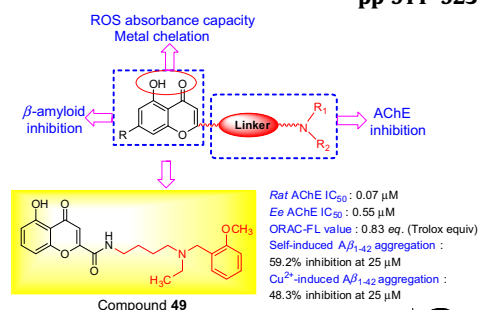
### Contents

#### ARTICLES

#### Design, synthesis and evaluation of chromone-2-carboxamido-alkylbenzylamines as multifunctional agents for the treatment of Alzheimer's disease

Qiang Liu, Xiaoming Qiang, Yan Li, Zhipei Sang, Yuxing Li, Zhenghui Tan\*, Yong Deng\*

pp 911–923

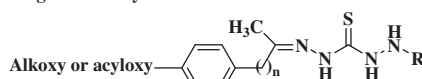


#### Rational design, synthesis and structure–activity relationships of 4-alkoxy- and 4-acyloxy-phenylethylenethiosemicarbazone analogues as novel tyrosinase inhibitors

Ao You, Jie Zhou, Senchuan Song, Guoxun Zhu, Huacan Song\*, Wei Yi\*

pp 924–931

Designed novel tyrosinase inhibitors:



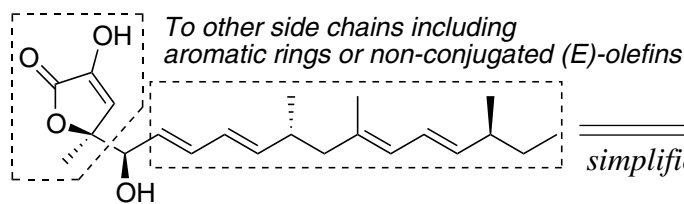
R=H,  $IC_{50}$  values of the target compounds: 0.072–2.71  $\mu$ M  
R= $NH_2$ ,  $IC_{50}$  values of the corresponding compounds > 100  $\mu$ M

#### Design, synthesis, and biological evaluation of air-stable nafuredin- $\gamma$ analogs as complex I inhibitors

Masaki Ohtawa, Mari Matsunaga, Keiko Fukunaga, Risa Shimizu, Eri Shimizu, Shiho Arima, Junko Ohmori, Kiyoshi Kita, Kazuro Shiomi, Satoshi Omura, Tohru Nagamitsu\*

pp 932–943

To saturated lactone



Nafuredin- $\gamma$  (2)  
Unstable in air

New nafuredin- $\gamma$  analogs

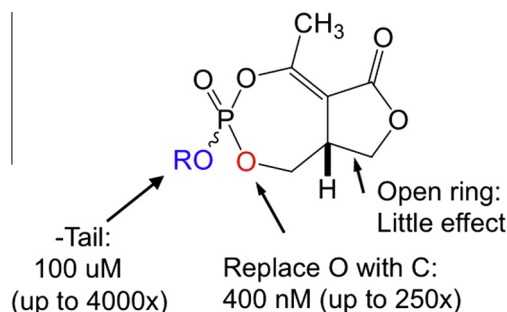
Complex I inhibitory activities  
 $IC_{50}$ : 300–820 nM

Air-stable

**Rat hormone sensitive lipase inhibition by cyclipostins and their analogs**

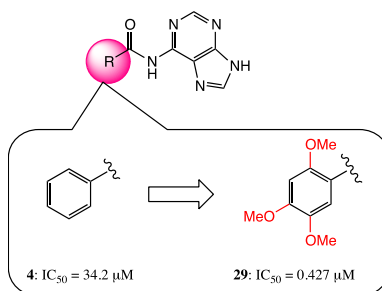
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Elena Vasilieva, Supratik Dutta, Raj K. Malla, Benjamin P. Martin, Christopher D. Spilling, Cynthia M. Dupureur\*

**Discovery and structure–activity relationship studies of N6-benzoyladenine derivatives as novel BRD4 inhibitors**

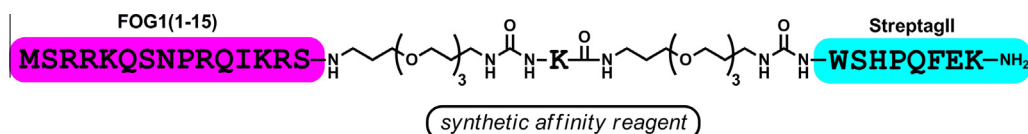
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Tomomi Noguchi-Yachide\*, Taki Sakai, Yuichi Hashimoto, Takao Yamaguchi

**A peptide affinity reagent for isolating an intact and catalytically active multi-protein complex from mammalian cells**

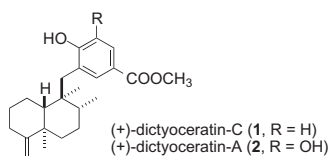
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Hinnerk Saathoff, Mattias Brofelth, Anne Trinh, Benjamin L. Parker, Daniel P. Ryan, Jason K.K. Low, Sarah R. Webb, Ana P.G. Silva, Joel P. Mackay, Nicholas E. Shepherd\*

**Enantioselective synthesis of dictyoceratin-A (smenospondiol) and -C, hypoxia-selective growth inhibitors from marine sponge**

pp 966–975

Yuji Sumii, Naoyuki Kotoku\*, Akinori Fukuda, Takashi Kawachi, Yuta Sumii, Masayoshi Arai, Motomasa Kobayashi\*



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