

# Synthetic Chemistry and Library Services

With full synthetic and medicinal chemistry capabilities, WuXi AppTec's strong and experienced scientific leadership team and over 1,300 chemists are dedicated to creating molecules per our clients' needs.

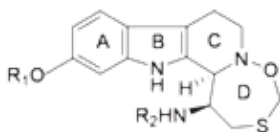
## Synthetic Chemistry

### ► Custom Synthesis of Intermediates and Benchmark Compounds

Completed syntheses of Kazusamycin A, Eudistomin analogs, BILN-2061, Aliskiren, etc., each of which was synthesized via >30 synthetic steps.

Synthesized over 10,000 individual compounds with an average of eight synthetic steps in gram to kilogram quantities.

Success rate over 95%.



*Eudistomin analogs*

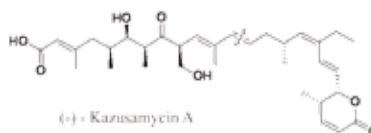
*Letters in Organic Chemistry, 2006, 3, 455-458*

Key authors: Zuozhong Peng, Ji Song, Wensheng Liao, Rujian Ma, Shuhui Chen, Ryoichi Ando

### ► Diversity Library Design and Synthesis

Utilizing our deep understanding of medicinal chemistry and aided by the Computational Chemistry Support team, we design and synthesize drug-like templates and libraries of compounds to enhance our client's compound collections.

Library production annual capacity is 1,000,000 compounds, with each compound >20 mg and >85% purity.



*(-)-Kazusamycin A*

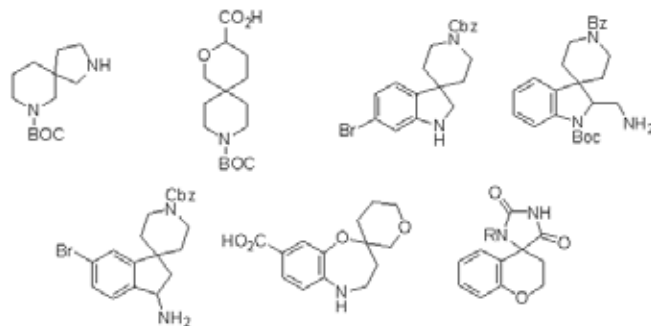
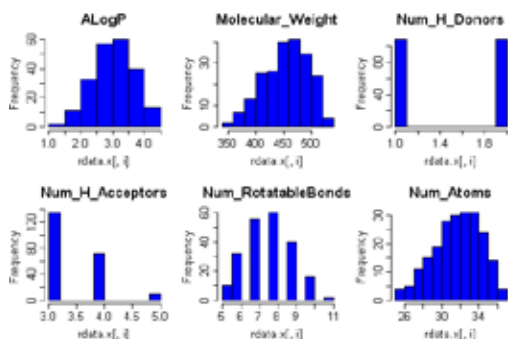
*(-)-Kazusamycin A*

*Tetrahedron Letters, 2005, 46, 6341-6334*

Key authors: Shengfeng Zhou, Huaxiang Chen, Wensheng Liao, Shuhui Chen, Ryoichi Ando, Isao Kuwajima

- Chemi-Informatics for library design, execution and analysis
- Reagents, enumeration, plate layout, RO5 compliance, calculated physical properties, quality control SAR analysis

- More than 2000 Drug-like spirocyclic, fused and rigid bridgehead heterocyclic templates now available for purchase



For more information on WuXi AppTec's services please contact:

**U.S.**  
+1 (651) 675 2000 • +1 (888) 794 0077  
info@wuxiapptec.com

**China**  
+86 (21) 5046 2477  
customer\_service@wuxiapptec.com

www.wuxiapptec.com

LT535-07.16.09