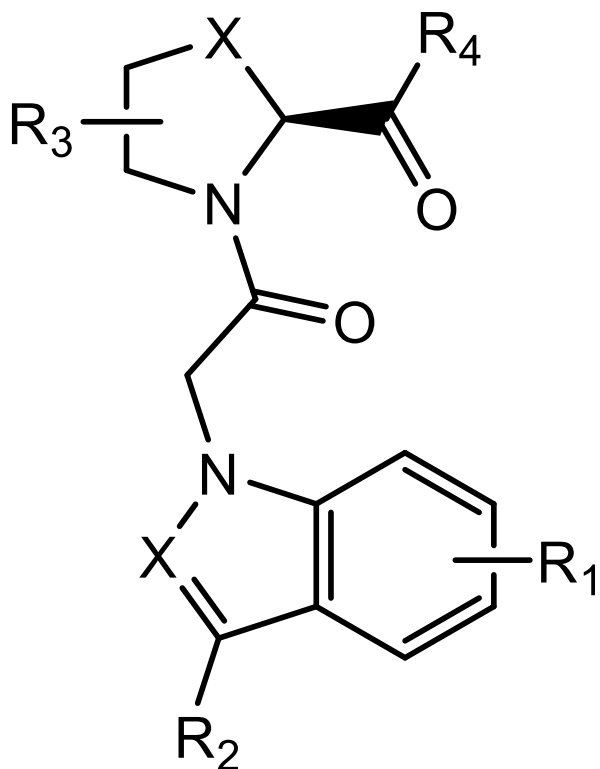


**Supplemental figure: Generalized structure of factor D inhibitors.**

A structure is shown for the class of factor D inhibitors that includes ACH-3856 and ACH-4471.

These inhibitors are described more fully in US patent applications cited in supplemental references 2 through 10.



$X = \text{CH}, \text{N}, \text{NR}$

$R, R_1, R_2, R_3, R_4 = \text{Various groups}$

### **References to patent applications on these compounds:**

1. Wiles JA and Deshpande M (Achillion Inc., USA). Factor D Inhibitors Useful for Treating Inflammatory Disorders. United States Patent Application 20150239837, August 27, 2015.
2. Phadke AS, Wang X, Chen D, et al (Achillion Inc., USA). Compounds for Treatment of Complement Mediated Disorders. United States Patent Application 20150239838, August 27, 2015.
3. Pais G, Hashimoto A, Gadhachanda VR, et al (Achillion Inc., USA). Alkyne Compounds for Treatment of Complement Mediated Disorders. United States Patent Application 20150239868, August 27, 2015.
4. Wang Q, Gadhachanda VR, Pais G, et al (Achillion Inc., USA). Amide Compounds for Treatment of Complement Mediated Disorders. United States Patent Application 20150239893, August 27, 2015.
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6. Gadhachanda VR, Wang Q, Pais G, et al (Achillion Inc., USA). Aryl, Heteroaryl, and Heterocyclic Compounds for Treatment of Complement Mediated Disorders. United States Patent Application 20150239895, August 27, 2015.
7. Gadhachanda VR, Pais G, Hashimoto A, et al (Achillion Inc., USA). Carbamate, Ester, and Ketone Compounds for Treatment of Complement Mediated Disorders. United States Patent Application 20150239919, August 27, 2015.
8. Gadhachanda VR, Pais G, Hashimoto A, et al (Achillion Inc., USA). Ether Compounds for Treatment of Complement Mediated Disorders. United States Patent Application 20150239920, August 27, 2015.
9. Wiles JA, Hashimoto A, Gadhachanda VR, et al (Achillion Inc., USA). Phosphonate Compounds for Treatment of Complement Mediated Disorders. United States Patent Application 20150239921, August 27, 2015