

Application Note: Rosuvastatin

Rosuvastatin, sold under the trade name Crestor among others, is a statin medication, used to prevent cardiovascular disease in those at high risk and treat abnormal lipids.

Rosuvastatin is a competitive inhibitor of the enzyme HMG-CoA reductase, having a mechanism of action similar to that of other statins. Rosuvastatin has structural similarities with most other synthetic statins, but unlike other statins, rosuvastatin contains sulfur (in sulfonyl functional group).

Rosuvastatin was patented in 1991, and approved for medical use in the United States in 2003. It is available as a generic medication. In 2019, it was the 21st most commonly prescribed medication in the United States, with more than 27 million prescriptions.

