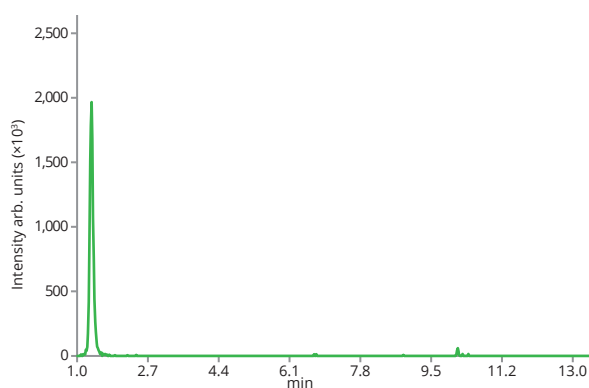
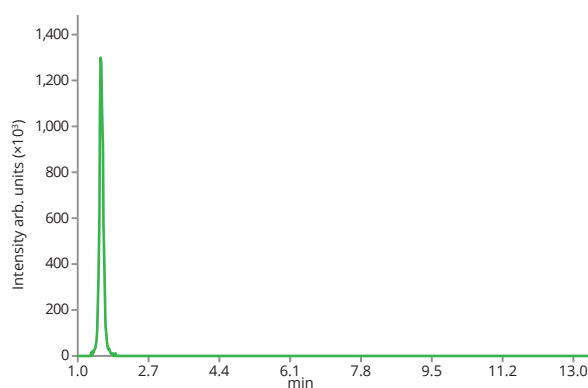


Cardiovascular drugs

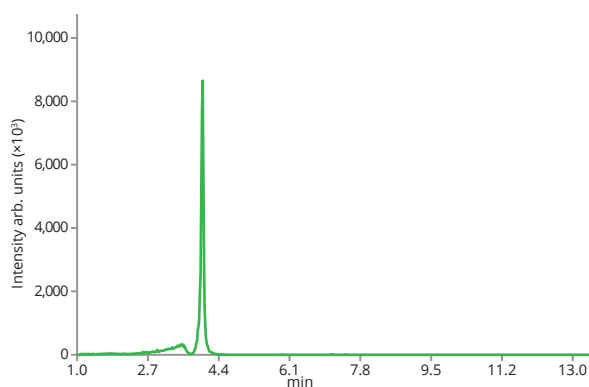
A gradient LC/MS method was developed for rapid determination of several classes of cardiovascular drugs such as non-cardioselective beta blockers, potassium-sparing diuretics, statins, nucleoside transport inhibitors, calcium channel blockers, ACE inhibitors, ARBs, lipid-lowering agents and anticoagulants.



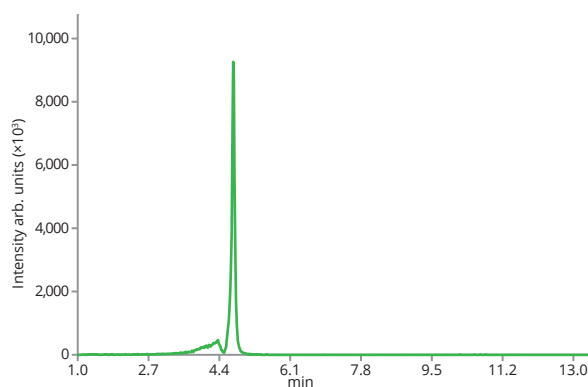
Atenolol RT: 1.35, m/z 267.1708



Sotalol RT: 1.57, m/z 273.1273

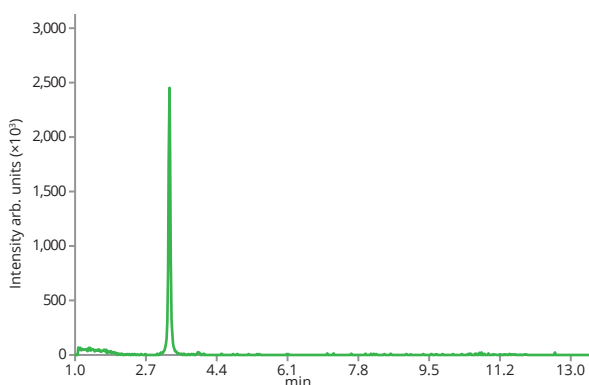


Triamterene RT: 4.03, m/z 254.1154

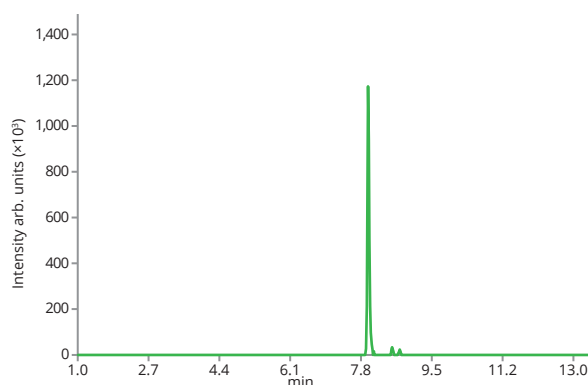


Metoprolol RT: 4.74, m/z 268.1912

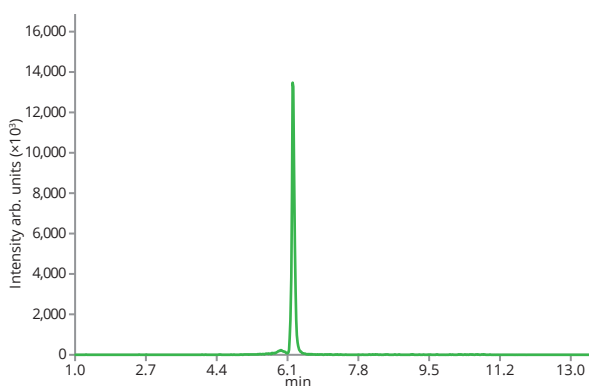
Cardiovascular drugs



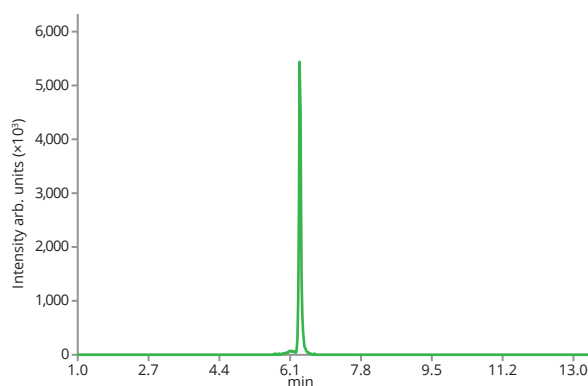
Metoprolol acid RT: 3.26, m/z 268.1549



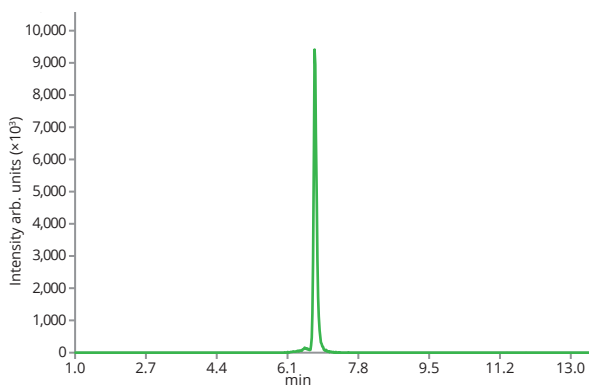
Rosuvastatin RT: 7.98, m/z 482.1761



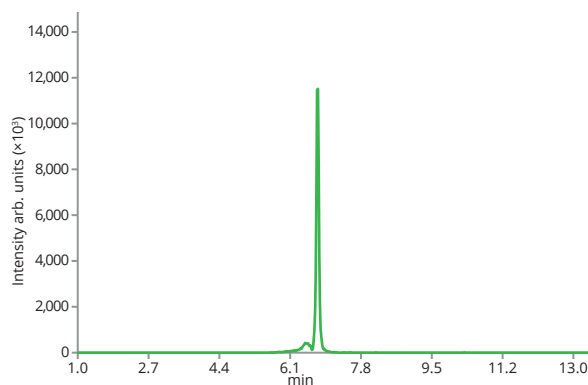
Propranolol RT: 6.25, m/z 260.165



Dipyridamole RT: 6.34, m/z 505.3251

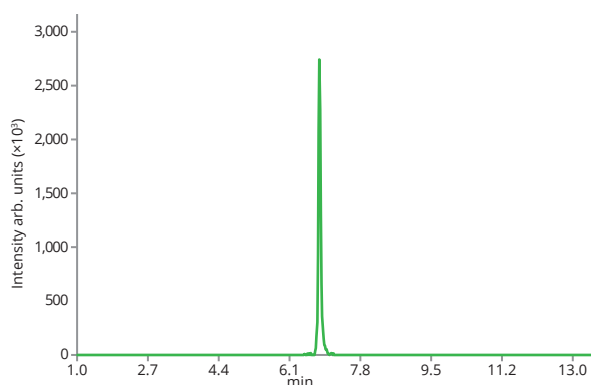


Diltiazem RT: 6.81, m/z 415.1691

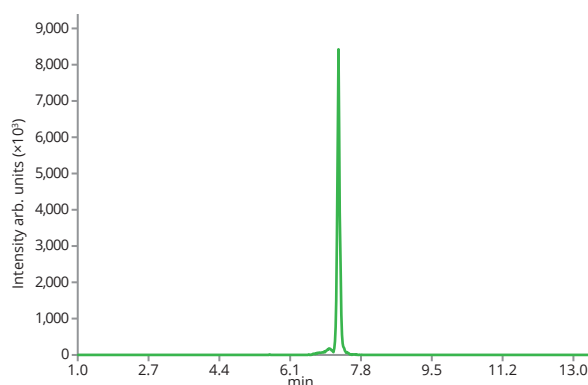


Flecainide RT: 6.78, m/z 415.1456

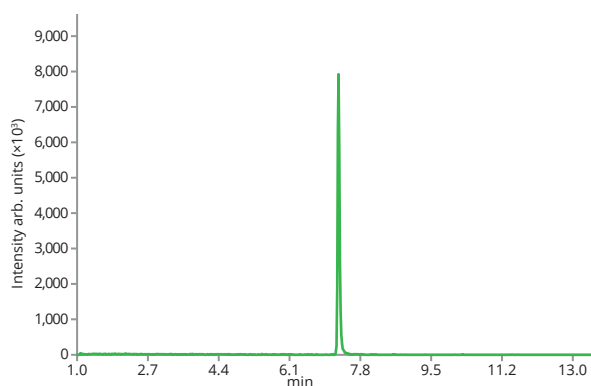
Cardiovascular drugs



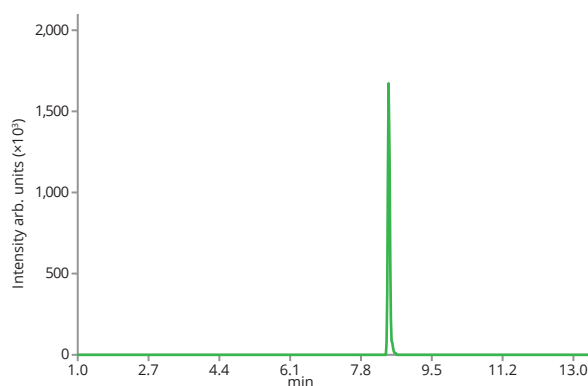
Cilazapril RT: 6.83, m/z 418.2342



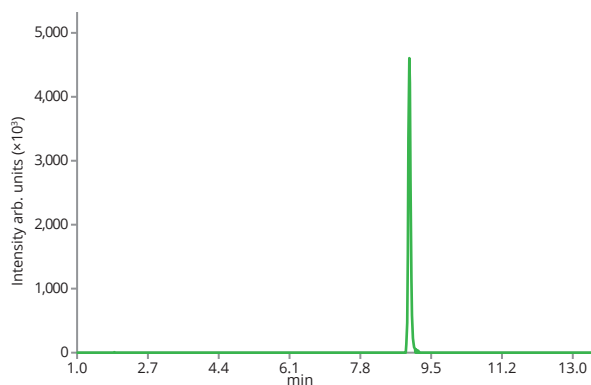
Verapamil RT: 7.27, m/z 455.291



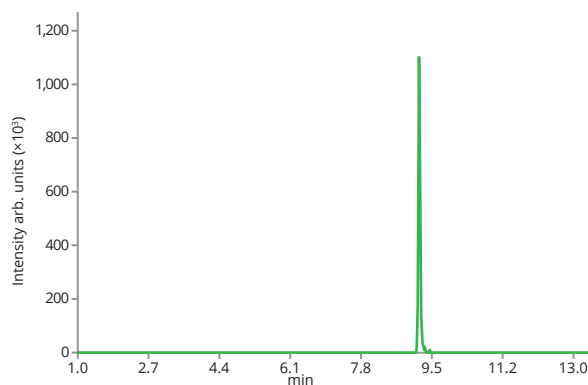
Irbesartan RT: 7.28, m/z 429.2403



Bezafibrate RT: 8.45, m/z 362.1159

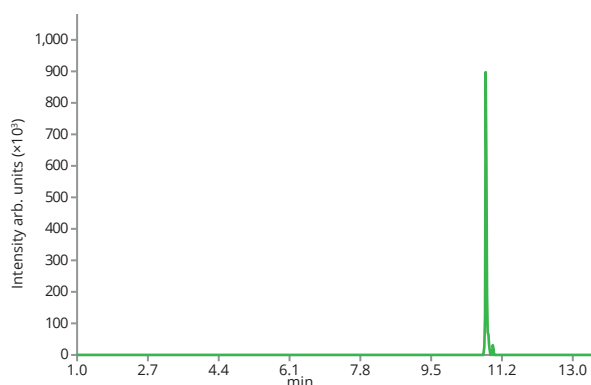


Warfarin RT: 8.98, m/z 309.1127

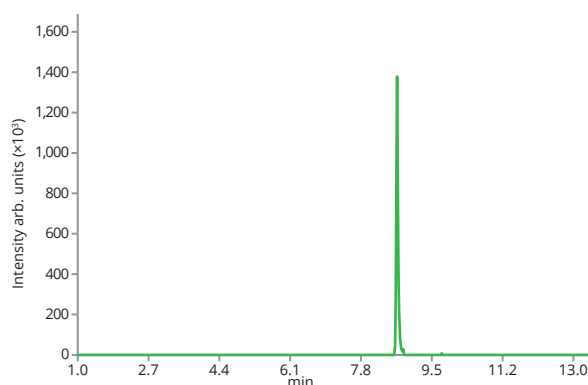


Atorvastatin RT: 9.2, m/z 559.2608

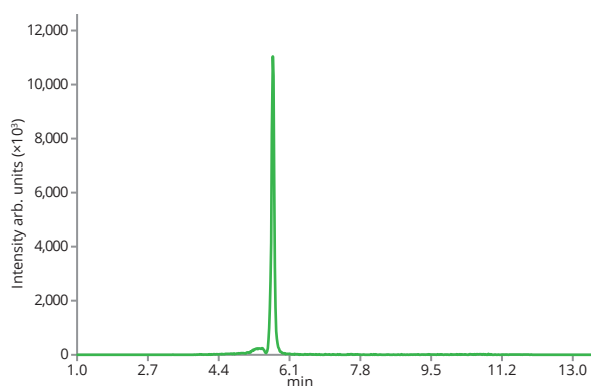
Cardiovascular drugs



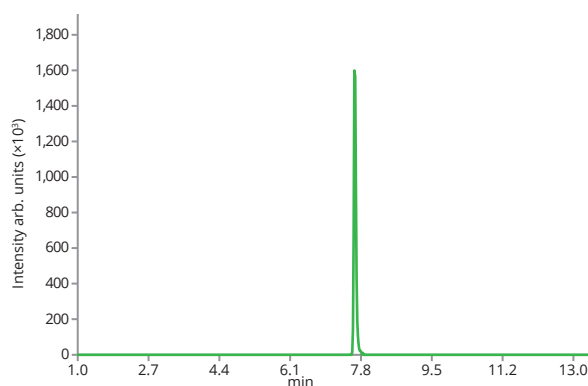
Fenofibrate RT: 10.82, m/z 361.1206



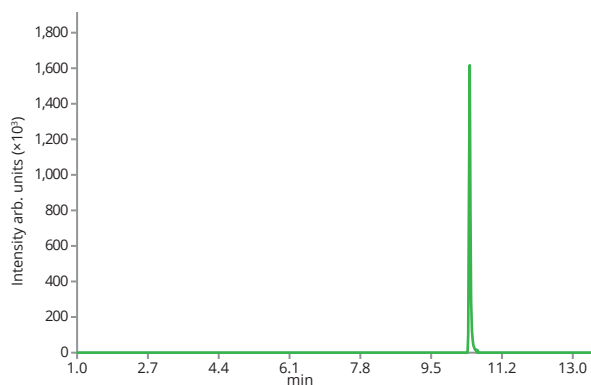
Valsartan RT: 8.67, m/z 436.2348



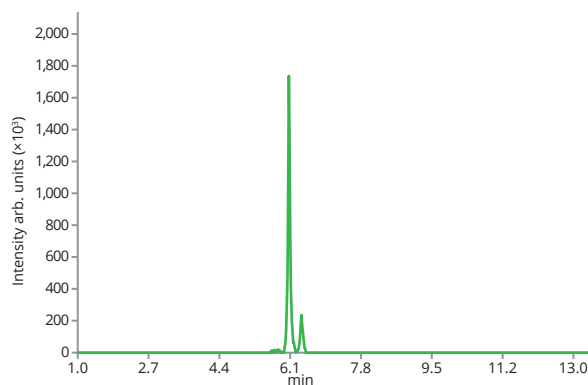
Bisoprolol RT: 5.71, m/z 326.2331



Candesartan RT: 7.67, m/z 441.1675



Candesartan cilexetil RT: 10.5, m/z 611.2636



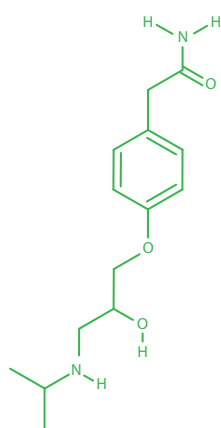
Eprosartan RT: 6.08, m/z 425.1535



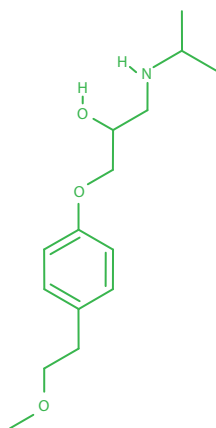
Cardiovascular drugs

Column	ASTRA® C18-HE, 3.0 µm					
Dimensions	75 mm × 2.1 mm					
Part number	AST-5732-IH21					
Mobile phase	A: DDW + 0.1% Formic Acid, B: ACN + 0.1% Formic Acid					
Gradient elution	Time	A (%)	B (%)	Time	A (%)	B (%)
	0	90	10	14	0	100
	1	90	10	14.01	90	10
	4	75	25	15	90	10
	8	60	40	17	90	10
	10	0	100			
Flow rate	0.35 mL/min					
Temperature	23 °C					
Detection	Full scan (resolving power 120 000, m/z 200), positive mode					
Injection volume	5 µL					
Analytes	1. Atenolol, CAS number 29122-68-7 2. Sotalol, CAS number 3930-20-9 3. Triamterene, CAS number 396-01-0 4. Metoprolol, CAS number 51384-51-1 5. Metoprolol acid, CAS number 56392-14-4 6. Rosuvastatin, CAS number 287714-41-4 7. Propranolol, CAS number 525-66-6 8. Dipyridamole, CAS number 58-32-2 9. Diltiazem, CAS number 42399-41-7 10. Flecainide, CAS number 54143-55-4 11. Cilazapril, CAS number 88768-40-5 12. Verapamil, CAS number 52-53-9 13. Irbesartan, CAS number 138402-11-6 14. Bezafibrate, CAS number 41859-67-0 15. Warfarin, CAS number 81-81-2 16. Atorvastatin, CAS number 134523-00-5 17. Fenofibrate, CAS number 49562-28-9 18. Valsartan, CAS number 137862-53-4 19. Bisoprolol, CAS number 66722-44-9 20. Candesartan, CAS number 139481-59-7 21. Candesartan cilexetil, CAS number 145040-37-5 22. Eprosartan, CAS number 133040-01-4					

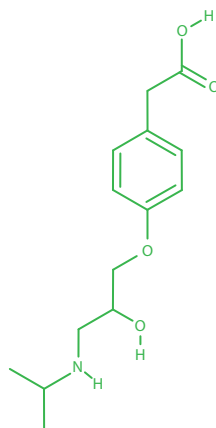
Cardiovascular drugs



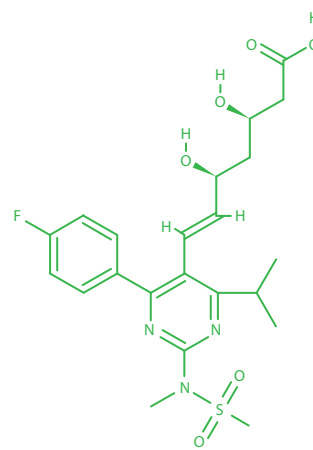
Atenolol



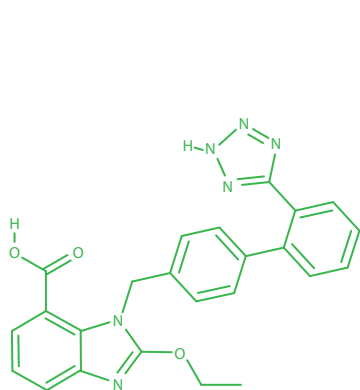
Metoprolol



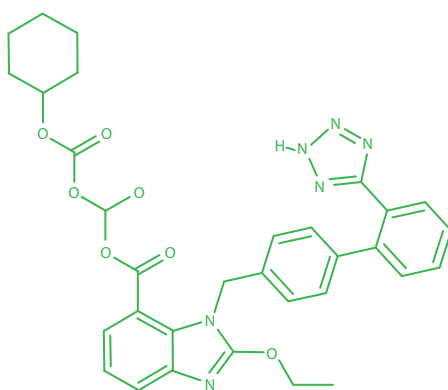
Metoprolol acid



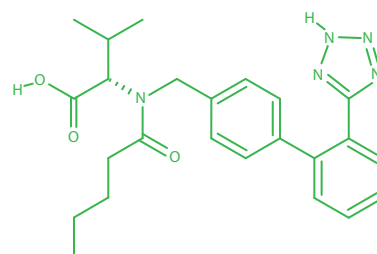
Rosuvastatin



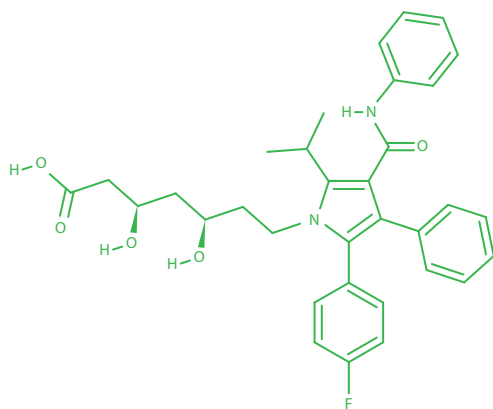
Candesartan



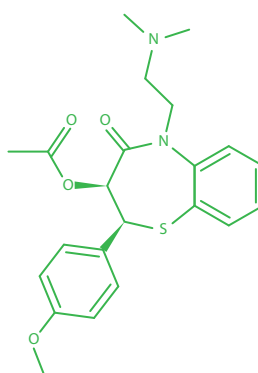
Candesartan cilexetil



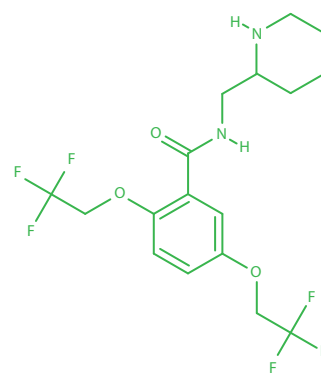
Valsartan



Atorvastatin

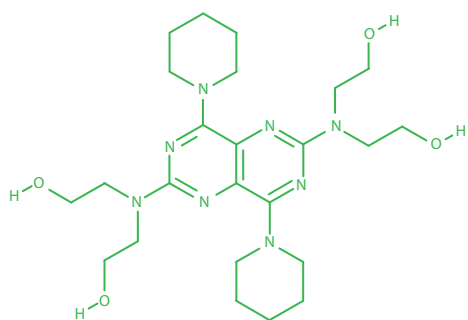


Diltiazem

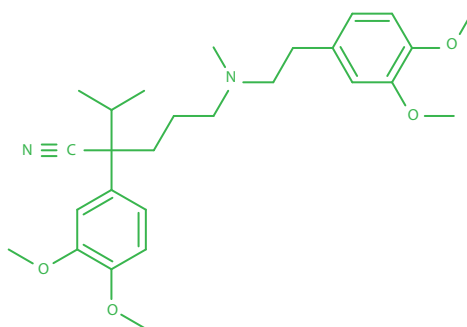


Flecainide

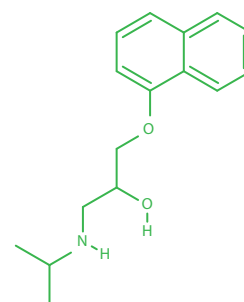
Cardiovascular drugs



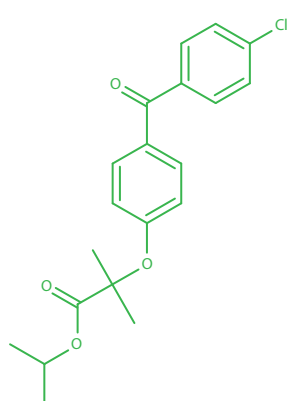
Dipyridamole



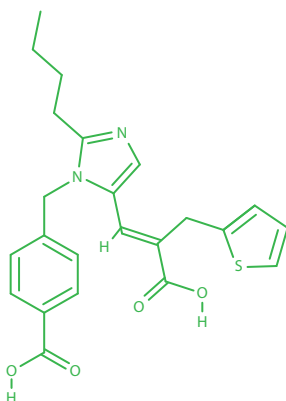
Verapamil



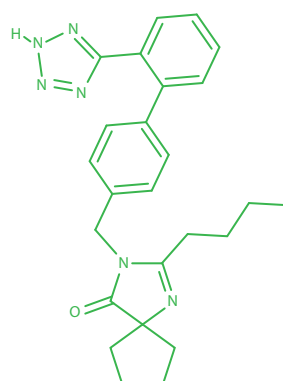
Propranolol



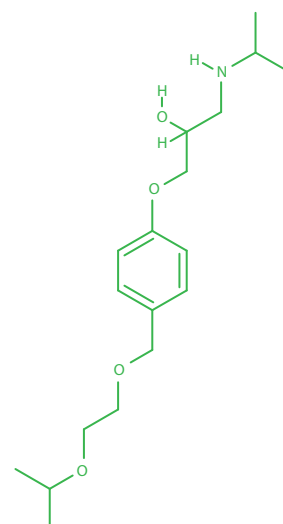
Fenofibrate



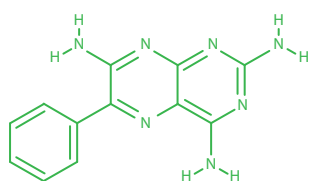
Eprosartan



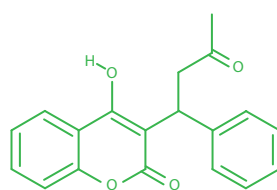
Irbesartan



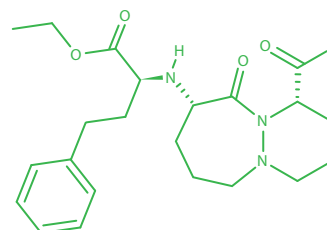
Bisoprolol



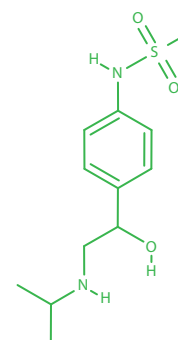
Triamterene



Warfarin



Cilazapril



Sotalol