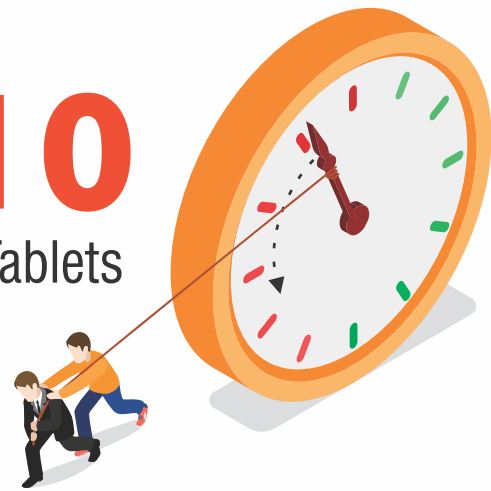


# ROSLAREN-F-10

Rosuvastatin 10 mg and Fenofibrate 160 mg Tablets



## Background:

- ➔ Dyslipidemia, and especially atherogenic dyslipidemia, a combination of small low-density lipoproteins cholesterol (LDL-C), decreased high-density lipoprotein cholesterol (HDL-C) and increased triglyceride (TG) concentrations, represents a major cardiovascular (CV) risk factor.
- ➔ Nuclear receptor peroxisome proliferator-activated receptors (PPARs) are involved in the regulation of lipid metabolism; PPAR ligands are used to treat dyslipidemias. Fibrates have a major impact on TG metabolism as well as on modulating LDL size and subclasses.

## Description:

- ➔ **ROSLAREN-F-10** contains Rosuvastatin and Fenofibrate. Both are antilipemic agent which reduces both cholesterol and triglycerides in the blood.
- ➔ Rosuvastatin competitively inhibits hydroxymethylglutaryl-coenzyme A (HMG-CoA) reductase to reduce cholesterol synthesis in liver.
- ➔ Fenofibrate belongs to the class of organic compounds known as benzophenones.

## Composition:

Each Film coated tablet of **ROSLAREN-F-10** contains Rosuvastatin 10 mg and Fenofibrate 160 mg.

## Indication:

For use as adjunctive therapy to diet to reduce elevated LDL-C, Total-C and Triglycerides and to increase HDL-C in adult patients with primary hypercholesterolemia or mixed dyslipidemia.

## Mechanism of Action:

- ➔ Rosuvastatin is a competitive inhibitor of HMG-CoA reductase. HMG-CoA reductase catalyzes the conversion of HMG-CoA to mevalonate, an early rate-limiting step in cholesterol biosynthesis.
- ➔ Fenofibrate exerts its therapeutic effects through activation of peroxisome proliferator activated receptor alpha (PPARα). This increases lipolysis and elimination of triglyceride-rich particles from plasma by activating lipoprotein lipase and reducing production of Apoprotein C-III.
- ➔ The resulting fall in triglycerides produces an alteration in the size and composition of LDL from small, dense particles, to large buoyant particles. These larger particles have a greater affinity for cholesterol receptors and are catabolized rapidly.

## Dosage:

The recommended daily dosage of **ROSLAREN-F-10** is one Tablet per day.

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The Magic of

# Dual Power



# ROSLAREN-F-10

Rosuvastatin 10 mg and Fenofibrate 160 mg Tablets

## CLINICAL STUDY

**Effect of Rosuvastatin monotherapy or in combination with fenofibrate or  $\omega$ -3 fatty acids on lipoprotein subfraction profile in patients with mixed dyslipidemia and metabolic syndrome.**

**Background:**  
Raised triglycerides (TG), decreased high-density lipoprotein cholesterol (HDL-C) levels and a predominance of small dense low density lipoproteins (sdLDL) are characteristics of the metabolic syndrome (MetS).

**Objective:**  
To compare the effect of high-dose Rosuvastatin monotherapy with moderate dosing combined with fenofibrate or  $\omega$ -3 fatty acids on the lipoprotein subfraction profile in patients with mixed dyslipidemia and MetS.

**Methods:**

- We previously randomised patients with low-density lipoprotein cholesterol (LDL-C) > 160 and TG > 200 mg /dl to Rosuvastatin monotherapy 40 mg / day (R group, n = 30) or Rosuvastatin 10 mg / day combined with fenofibrate 200 mg / day (RF group, n = 30) or  $\omega$ -3 fatty acids 2g/day (R $\omega$  group, n = 30).
- In the present study, only patients with MetS were included (24, 23 and 24 in the R, RF and R $\omega$  groups respectively). At baseline and after 12 weeks of treatment, the lipoprotein subfraction profile was determined by polyacrylamide 3% gel electrophoresis.

**Results:**

- The mean LDL size was significantly increased in all groups. This change was more prominent with RF than with other treatments in parallel with its greater hypotriglyceridemic capacity (p < 0.05 compared with R and R $\omega$ ).
- A decrease in insulin resistance by RF was also noted. Only RF significantly raised HDL-C levels (by 7.7%, p < 0.05) by increasing the cholesterol of small HDL particles.
- The cholesterol of larger HDL subclasses was significantly increased by R and R $\omega$ .

**Conclusion:**  
All regimens increased mean LDL size; RF was the most effective. A differential effect of treatments was noted on the HDL subfraction profile.

**Reference:**  
Int J Clin Pract, September 2012, 66, 9, 843-853

