Validated Rp-Hplc Method For Simultaneous Determination Of Zofenopril And Hydrochlorothiazide In Pharmaceutical Preparations

Serap Saglik Aslan
Istanbul University, Faculty of Pharmacy, Department of Analytical Chemistry, 34116 Beyazit, Istanbul, Turkey, serapsaglik@yahoo.com, ssaglikistanbul.edu.tr

Zofenopril (Figure 1) is a new angiotensin converting enzyme (ACE) inhibitor that has been used in the treatment of essential hypertension individually [1] and also combined with a diuretic; hydrochlorothiazide [2]. In this study a simple, selective, and precise reverse phase high performance liquid chromatographic method has been developed for the simultaneous determination of zofenopril and hydrochlorothiazide in pharmaceutical preparations. Analysis were carried out on C18 column with gradient program by using 10mM H3PO4 and acetonitrile and UV detection at a flow rate of 1 mL min⁻¹. Fosinopril was used as an internal standard. The developed method was validated according to ICH guidelines and successfully applied for determination of zofenopril and hydrochlorothiazide in pharmaceutical preparations. The proposed method can be used for quality control analysis of these drugs in combined dosage forms.

Figure 1. Chemical structure of zofenopril

References