

Abstract

New Crystalline Form VI of Agomelatine, Preparation and Use thereof

The invention provides a new crystalline form of agomelatine, preparation and use thereof. The X-ray powder diffraction diagram of the agomelatine crystalline form shows main peaks at the diffraction angles 2θ 11.13°, 11.82°, 17.49°, 18.29°, 19.48°, 19.72°, 20.50°, 21.76°, 22.54°, 22.97°, 24.56°, 25.36°, 27.16° and 31.93°. Said new crystalline form is characterized by high purity, stability and good reproducibility, and thus is advantageous for the pharmaceutical formulation. In addition, the stability and solubility of said crystalline form are also superior over the several existing crystalline forms.