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We present the analysis of 3 hrs of a rapid time series of precise stellar radial velocity (RV) measurements (\(\sigma = 4.5 \text{ m s}^{-1}\)) of the cool Ap star \(\beta\) CrB. The integrated RV measurements spanning the wavelength interval 5000-6000A show significant variations (false alarm probability = \(10^{-5}\)) with a period of 16.21 min (\(\nu = 1028.17 \mu\text{Hz}\)) and an amplitude of 3.54 ± 0.56 m s over a much narrower wavelength interval reveals one spectral feature at \(\lambda 6272.0\)A pulsating with the same 16.21 min period and an amplitude of 138 ± 23 m s\(^{-1}\). These observations establish \(\beta\) CrB to be a low-amplitude rapidly oscillating Ap star.