

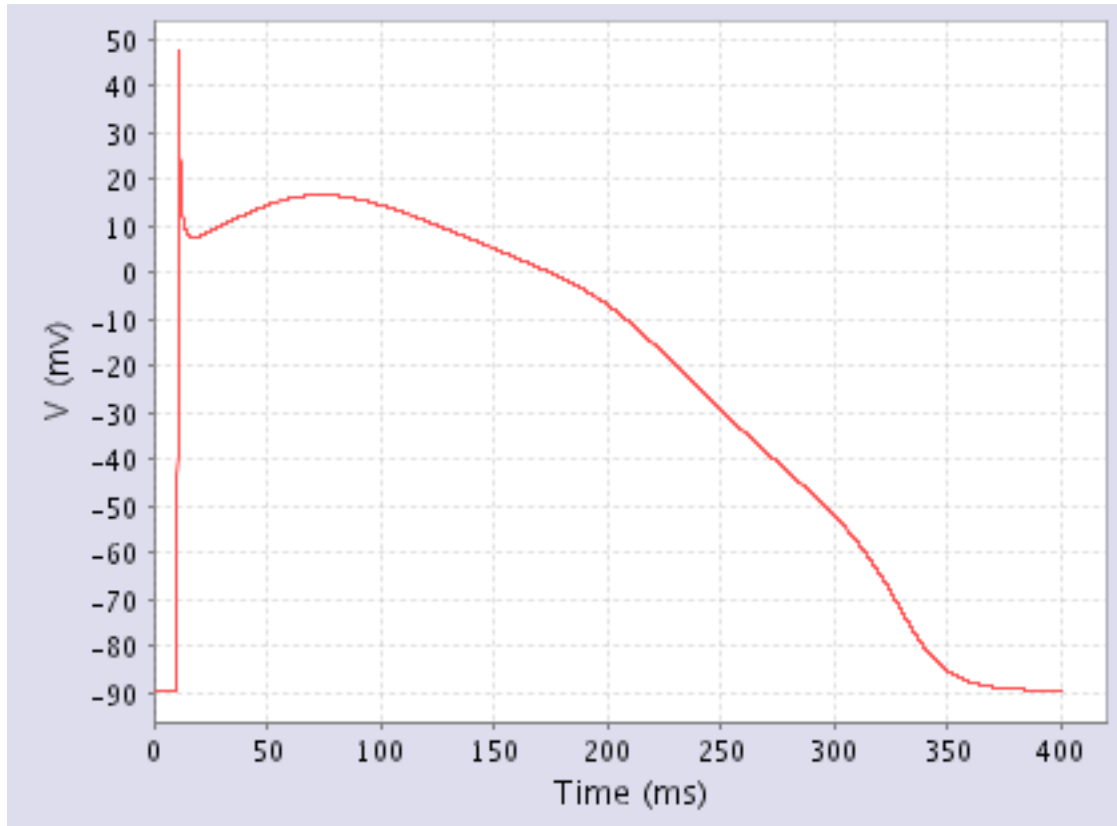
Human Ventricular BWZVP02-ESM

**Enhanced Simucore Model Based Upon: Bernus et al.
Computationally-efficient Model of Human Ventricular Cardiac
Action Potentials, 2002; v. 2.0**

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1 Description



This model simulates human ventricular action potentials. This is a simplified version of Priebe-Beuckelmann human ventricular model. This model does not contain dynamic ion concentration calculations and replaces some gating variables with their steady-state values to improve computational efficiency.

Abstract excerpt: *"We introduce a six-variable model obtained by a reformulation of the Priebe-Beuckelmann model of a single human ventricular cell. The reformulated model is 4.9 times faster for numerical computations and it is more stable than the original model."*

2 References

- Bernus O, Wilders R, Zemlin CW, Vershelde H, Panfilov AV.
A computationally efficient electrophysiological model of human ventricular cells.
Am J Physiol Heart Circ Physiol. 2002 Jun;282(6):H2296-308.
PMID: [12003840](https://pubmed.ncbi.nlm.nih.gov/12003840/)

3 Ordering

- [Order this model](#) or [request further information](#).