

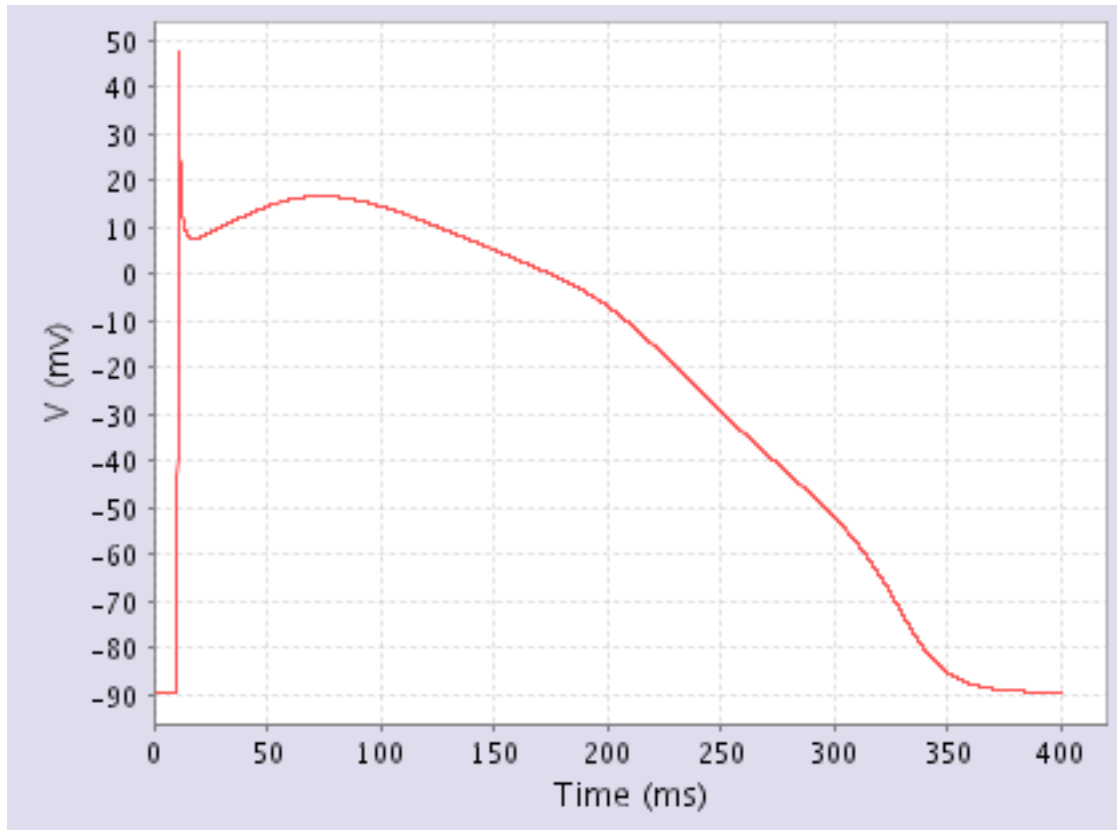
Human Ventricular BWZVP02-SM

**Simucore Model Based Upon: Bernus et al.
Computationally-efficient Model of Human Ventricular
Cardiac Action Potentials, 2002; v. 1.4**

Table of contents

1 Description.....	2
2 References.....	2
3 Ordering.....	3

1. Description



Example action potential (BCL = 400 ms).

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, Verscelde 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](#)

3. Ordering

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