

[Open Peer Review on Qeios](#)

# Arbutamine

National Cancer Institute

## Source

National Cancer Institute. *Arbutamine*. NCI Thesaurus. Code C65238.

A synthetic catecholamine with positive chronotropic and inotropic properties, used in echocardiography and diagnostic coronary angiography. Arbutamine binds to and activates beta-1 adrenergic receptors in the myocardium, thereby increasing heart rate and increasing force of myocardial contraction. By exerting a chronotropic and inotropic effect, arbutamine mimics the cardiac stress caused by exercise that may prevent adequate tissue perfusion and oxygenation, and may provoke myocardial ischemia in patients with coronary artery disease.