Norepinephrine is a hormone and neurotransmitter that modulates sympathetic nervous system activity and plays a role in modulating reward, reinforcement, feeding, and other behaviors. Norepinephrine exhibits vasoconstrictive, pro-angiogenic, and thermoregulatory activities. Norepinephrine is clinically used to treat cardiac arrest, severe hypotension, and shock. This compound acts as an agonist at α- and β-adrenergic receptors, inducing vascular vasoconstriction, decreasing blood flow, and increasing blood pressure. In vitro, norepinephrine increases expression of VEGF and stimulates choroidal neovascularization. This compound also decreases core body temperature.

References