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Sitosterol-Stimulative Production of Plasminogen Activator in Cultured Endothelial Cells From Bovine Carotid Artery*

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The endothelial cell is a rich source of plasminogen activator that is associated with fibrinolytic activity in blood vessel. Addition of sitosterol to the culture medium of endothelial cells from bovine carotid artery gave to a marked increment in the activity of plasminogen activator. Removal of sitosterol from the culture medium resulted in a decrease of plasminogen activator activity back to normal levels. Enhancement of plasminogen activator activity in cultured endothelial cells was not observed by cholesterol, 5-androsten-3 β -ol and others.

Enhancement of plasminogen activator activity in medium by sitosterol-treated cells. Endothelial cells were subcultured in the presence of 50 μ M each steroids.

Values are represented as means of values obtained from two different samples. Sitosterol-treated (—●—), untreated (—○—), cholesterol (—▲—), and 5-androsten-3 β -ol (—△—).

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