

# Esmolol

Esmolol (trade name Brevibloc) is a cardioselective beta1 receptor blocker with rapid onset, a very short duration of action, and no significant intrinsic sympathomimetic or membrane stabilizing activity at therapeutic dosages.

It is a class II antiarrhythmic.

Esmolol decreases the force and rate of heart contractions by blocking beta-adrenergic receptors of the sympathetic nervous system, which are found in the heart and other organs of the body. Esmolol prevents the action of two naturally occurring substances: epinephrine and norepinephrine.

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Despite reducing pain after laparoscopic cholecystectomy, esmolol did not prevent [Postoperative nausea and vomiting](#), whether used alone or in combination with ramosetron <sup>1)</sup>.

## Pending classification

1: Ji JY, Kim NS, Seo YH, Jung HS, Chun HR, Park JS, Choi JS, Ahn JM, Kim WJ. Comparing the effects of continuous infusion of esmolol and ramosetron alone and in combination on nausea and vomiting after laparoscopic cholecystectomy: A prospective, randomized, double-blind study. *Medicine (Baltimore)*. 2022 Sep 2;101(35):e30105. doi: 10.1097/MD.00000000000030105. PMID: 36107614.

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Ji JY, Kim NS, Seo YH, Jung HS, Chun HR, Park JS, Choi JS, Ahn JM, Kim WJ. Comparing the effects of continuous infusion of [esmolol](#) and [ramosetron](#) alone and in combination on [nausea](#) and [vomiting](#) after laparoscopic [cholecystectomy](#): A prospective, randomized, double-blind study. Medicine (Baltimore). 2022 Sep 2;101(35):e30105. doi: 10.1097/MD.00000000000030105. PMID: 36107614.

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