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# Meluadrine

National Cancer Institute

## Source

National Cancer Institute. *Meluadrine*. NCI Thesaurus. Code C66083.

A beta-adrenergic receptor agonist with tocolytic activity. Meluadrine binds to and activates beta-2 adrenergic receptors of myometrial smooth muscle in the uterus, thereby activates adenylyl cyclase, an enzyme that catalyzes the conversion of adenosine triphosphate (ATP) to cyclic-3',5'-adenosine monophosphate (cAMP). Increased cAMP levels leads to a reduction in intracellular calcium concentration, thereby causes smooth muscle relaxation and decreases the intensity of uterine contractions.