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Ifetroban

National Cancer Institute

Source

National Cancer Institute. *Ifetroban*. NCI Thesaurus. Code C81570.

An orally bioavailable thromboxane (Tx_{A2}) and prostaglandin H₂ (PGH₂) (TP) receptor antagonist, with anti-thrombotic, anti-hypertensive, anti-asthmatic and potential anti-metastatic activities. Upon administration, ifetroban targets and binds to Tx_{A2} and PGH₂ receptors, thereby preventing the activity of both Tx_{A2} and PGH₂ and disrupting their downstream signaling pathways. This prevents platelet activation, aggregation and thrombosis. It also prevents vascular constriction and causes vasodilation. In addition, as cancer cells use platelets to metastasize to different parts of the body, ifetroban can reduce the stickiness of the platelets and prevent metastasis. Tx_{A2} causes vascular contraction and platelet activation.