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# Ifetroban Sodium

National Cancer Institute

## Source

National Cancer Institute. *Ifetroban Sodium*. NCI Thesaurus. Code C81569.

The sodium salt form of ifetroban, an orally bioavailable thromboxane (Tx<sub>A2</sub>) and prostaglandin H<sub>2</sub> (PGH<sub>2</sub>) (TP) receptor antagonist, with anti-thrombotic, anti-hypertensive, anti-asthmatic and potential anti-metastatic activities. Upon administration, ifetroban targets and binds to Tx<sub>A2</sub> and PGH<sub>2</sub> receptors, thereby preventing the activity of both Tx<sub>A2</sub> and PGH<sub>2</sub> 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<sub>A2</sub> causes vascular contraction and platelet activation.