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# Tirofiban Hydrochloride

National Cancer Institute

## Source

National Cancer Institute. *Tirofiban Hydrochloride*. NCI Thesaurus. Code C47759.

The hydrochloride salt form of tirofiban, a non-peptide tyrosine derivative with anticoagulant property. Tirofiban antagonizes fibrinogen binding to the platelet cell surface receptor, glycoprotein (GP) IIb/IIIa complex, one of the two purinergic receptors activated by ADP. The antagonism prevents adenylyl cyclase activation, which mediated via GP IIb/IIIa receptor complex, and results in decreased levels of cAMP and thereby interferes with platelet membrane function and subsequent platelet-platelet interaction, release of platelet granule constituents and prolongation of bleeding time.