Data Sheet

Product Name: Tirofiban (hydrochloride monohydrate)
Cat. No.: CS-0948
CAS No.: 150915-40-5
Molecular Formula: C22H39ClN2O6S
Molecular Weight: 495.07
Target: Integrin
Pathway: Cytoskeleton
Solubility: DMSO : 12 mg/mL (24.24 mM; Need ultrasonic and warming);
H2O : < 0.1 mg/mL (insoluble)

BIOLOGICAL ACTIVITY:
Tirofiban hydrochloride monohydrate is a potent non-peptide, glycoprotein IIb/IIIa (integrins alphabiibetaIII) antagonist IC50 value:
Target: integrin IIb/IIIa Tirofiban hydrochloride monohydrate blocks platelet aggregation and thrombus formation. Tirofiban is an antithrombotic used in the treatment of unstable angina. Tirofiban, in a concentration-dependent manner reduced platelet aggregation evoked by ADP (IC50 approximately 70 ng/ml), collagen (IC50 approximately 200 ng/ml), and thrombin (IC50 approximately 5,000 ng/ml).

References:

CAIndexNames:
L-Tyrosine, N-(butylsulfonyl)-O-[4-(4-piperidinyl)butyl]-, hydrochloride, hydrate (1:1:1)

SMILES:
O=S(N[C@H](C(O)=O)CC1=CC=C(OCCCCC2CCNCC2)(C=C1)(CCCC)=O)[H]Cl.[H]O[H]