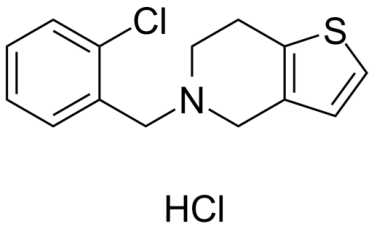
Data Sheet

Product Name:	Ticlopidine (hydrochloride)
Cat. No.:	CS-1985
CAS No.:	53885-35-1
Molecular Formula:	C14H15Cl2NS
Molecular Weight:	300.25
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Solubility:	DMSO : 50 mg/mL (166.53 mM; Need ultrasonic); H2O : 50 mg/mL (166.53 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Ticlopidine hydrochloride is an adenosine diphosphate (ADP) receptor inhibitor against platelet aggregation with IC50 of ~2 μM. Target: Adenosine diphosphate (ADP) Ticlopidine (trade name Ticlid) is an antiplatelet drug in the thienopyridine family. Ticlopidine hydrochloride inhibits platelet aggregation with IC50 of ~2 μM in men. Like clopidogrel, it is an adenosine diphosphate (ADP) receptor inhibitor. It is used in patients in whom aspirin is not tolerated, or in whom dual antiplatelet therapy is desirable. Because it has been reported to increase the risk of thrombotic thrombocytopenic purpura (TTP) and neutropenia, its use has largely been supplanted by the newer drug, clopidogrel, which is felt to have a much lower hematologic risk. Its niche role as an alternative in those patients who do not tolerate Clopidogrel has now been superdeded by Ticagrelor and Prasugrel. The usual dose is 250 mg twice daily by the oral route. Ticlopidine hydrochloride, when orally administered to rats, results in activation of basal and prostaglandin E1 (PGE1)-stimulated adenylate cylase activity through increase in affinity of the cyclase in platelet membrane to PGE1, although it failed to affect adenosine- or sodium fluoride-stimulated activity of the enzyme.

References:

[1]. Thebault JJ, et al. Effects of ticlopidine, a new platelet aggregation inhibitor in man. Clin Pharmacol Ther. 1975 Oct;18(4):485-90.

[2]. Ashida SI, et al. Mode of action of ticlopidine in inhibition of platelet aggregation in the rat. Thromb Haemost. 1979 Apr 23;41(2):436-49.

CAIndexNames:

Thieno[3,2-c]pyridine, 5-[(2-chlorophenyl)methyl]-4,5,6,7-tetrahydro-, hydrochloride (1:1)

SMILES:

ClC1=CC=CC=C1CN2CCC3=C(C=CS3)C2.Cl

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