
Product Data Sheet

Product Name: Trombodipine (PCA-4230)

Cat. No.: GC32610

Chemical Properties

Cas. No. 113658-85-8

SMILES O=C(C1=C(C)NC(C)=C(C(OCC)=O)C1C)OCCN(C(C2=C3C=CC=C2)=O)S3(=O)=OFormula $C_{21}H_{24}N_2O_7S$ M.Wt 448.49

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Protocol**

Cell experiment: To estimate the proportions of cells in different phases of the cell cycle, cellular DNA contents are measured by flow cytometry. Cells are plated, allowed to attach overnight, and placed in serum-free medium for 48 h. Trombodipine (50 μM) is added at selected points during serum repletion. At the specified times after serum addition, the cells are harvested by trypsinization, washed with PBS, pelleted and resuspended in PBS containing 0.6% Nonidet P-40 and 100 μg/mL propidium iodide (PI). Flow cytometric analyses are done with a FACScan flow cytometer[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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References:

[1]. del Rio M, et al.
Antiproliferative
effects of PCA-
4230, a new
antithrombotic
drug, in vascular
smooth muscle
cells. Br J
Pharmacol. 1997
Apr;120(7):1360-6.

Background

Trombodipine is an antithrombotic agent.

Trombodipine is an antithrombotic agent. Exposure to 50 μ M Trombodipine reveals an important stasis of growth. The percentage of inhibition exerted by 1 μ M Trombodipine on day 3, 5 and 7 of the growth curve is 22.0 ± 4.5 , 32.0 ± 3.0 and $29.4\pm 6.0\%$, respectively ($P<0.05$). The inhibitory effect of Trombodipine on cell proliferation is reversible and after removal of Trombodipine the proliferation of the cells is resumed[1]. Addition of Trombodipine reduces cell number in a dose-dependent manner over a period of 4 to 6 days in culture. When compare to control cultures at the latest time points investigated, 5 μ M Trombodipine decreases the number of E19P cells and human VSMCs by 25 and 21%, respectively, whereas 50 μ M Trombodipine reduces E19P and human VSMC number by 85 and 74%, respectively[2].

[1]. del Rio M, et al. Antiproliferative effects of PCA-4230, a new antithrombotic drug, in vascular smooth muscle cells. Br J Pharmacol. 1997 Apr;120(7):1360-6.

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