

Product Data Sheet

Product Name: TJ191
Cat. No.: GC62676

Chemical Properties

Cas. No. 1522415-97-9

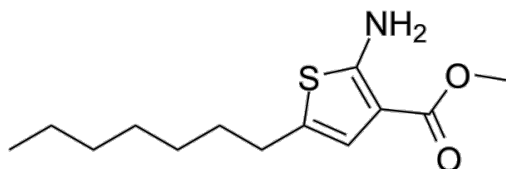
Formula $C_{13}H_{21}NO_2S$ M.Wt 255.38

Solubility DMSO : 100 mg/mL (391.57 mM; Need ultrasonic) Storage 4°C, protect from light

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



Background

TJ191 is a potent and specific anti-cancer agent that targets low TβRIII-expressing malignant T-cell

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

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leukemia/lymphoma cells. TJ191 has no effects on the proliferation of other cancer cells or normal fibroblasts or immune cells. TJ191 can be used for cancer research[1].

TJ191 (0-100 μ M; 24 hours) exhibits pronounced anti-proliferative activity in malignant cell lines, the IC₅₀ values are 0.13 μ M, 0.13 $\pm$ 0.08 μ M, 0.26 $\pm$ 0.19 μ M, 0.22 $\pm$ 0.11 μ M, 1.5 $\pm$ 0.02 μ M, 0.32 $\pm$ 0.086 μ M, 3.1 $\pm$ 0.5 μ M, 0.26 $\pm$ 0.16 μ M in CEM, JURKAT, MOLT-3, MOLT-4, SUP-T1, MT-2, C8166 and HSB-2 cells, respectively. But has no effects in HUT-78 (IC₅₀=17 $\pm$ 10 μ M) and MT-4 (IC₅₀=47 $\pm$ 5 μ M) cells[1]. TJ191 (0.1-3 μ M; 8 or 24 hours) induces CEM cell apoptosis in a concentration- and time-dependent manner. Even at 0.3 μ M, TJ191 induces the maximum apoptotic rate of 80% after 24 h[1].

[1]. Ahmed El-Gazzar, et al. 2-Amino-3-methylcarboxy-5-heptyl-thiophene (TJ191) is a selective anti-cancer small molecule that targets low T β RIII-expressing malignant T-cell leukemia/lymphoma cells. *Oncotarget*. 2017 Dec 15;9(5):6259-6269.

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